# GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NEW YORK STATE ENERGY CODE, INTERNATIONAL MECHANICAL CODE, ASHRAE GUIDELINES, SMACNA, COUNTY GUIDELINES, NEC, NATIONAL STANDARD PLUMBING CODE, AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. ADOPTED BY THE STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
2. MECHANICAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKMEN, OCCUPANTS AND THE PUBLIC FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
4. MECHANICAL CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA.
5. MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, APPROVALS, ETC. PRIOR TO COMMENCING WORK AND SHALL SECURE CERTIFICATE OF OCCUPANCY UPON COMPLETION OF WORK.
6. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL EXCESS MATERIAL OFF SITE IN AN APPROVED MANNER. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF ANY EXCESS MATERIALS AT THE COMPLETION OF THE PROJECT.
7. UPON COMPLETION OF WORK, ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
8. ALL WORK SHALL BE SCHEDULED IN COMPLIANCE WITH THE OWNER'S REQUIREMENTS FOR THE USE OF THE EXISTING FACILITY.
9. MECHANICAL CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER, AND AS NECESSARY FOR A PROPER OPERATIONAL SYSTEM.
10. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF HIS WORK AND TO ENSURE THE OWNER'S FACILITY TO BE OPERATIONAL.
11. MECHANICAL CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
12. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
13. MECHANICAL CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL WRITTEN OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
14.MECHANICAL CONTRACTOR SHALL SUBMIT, WHERE REQUIRED BY THE ARCH/ENGR, SHOP DRAWINGS ANDSUBMITTALS FOR APPROVAL PRIOR TO THE START OF FABRICATION OF THOSE ITEMS. THIS INCLUDES ALLEQUIPMENT, SCHEMATIC DUCTWORK AND PIPING LAYOUT, MECHANICAL ROOM LAYOUT, ETC.OPINING LAYOUT, MECHANICAL ROOM LAYOUT, ETC.CONTRACTORIS RESPONSIBLE FOR ENSURING ALL EQUIPMENT ETC. WILL FIT (WITH PROPERMAINTENANCE CLEARANCES)AT ALL LOCATIONS. REVIEW OF SHOP DRAWINGS/SUBMITTALS BY THE CONTRACTOR FROM PROVIDING THE CURRENT MODEL NUMBERS,TYPE, &FEATURES OF ALL EQUIPMENT'S & MATERIALS.TYPE, &
15. MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE PRIOR TO STARTING THE WORK.
16. MECHANICAL CONTRACTOR SHALL SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
17. ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE TO WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE AND OI EQUAL OR BETTER QUALITY.
18. ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
19. THE ARCHITECT/ENGINEER HAS THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED, OR WORK DONE CONTRARY TO THE THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
20. MECHANICAL CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND THE WORK OF HIS SUBCONTRACTORS FOR A PERIOD ONE (1) YEAR AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S EXPENSE.
21. IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER.
22. ENGINEER/OWNER MAY ASK THE MECHANICAL CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS & SUBMITTALS OF ANY/ALL PARTS OF THIS PROJECT WHICH THE ENGINEER/OWNER DEEMS NECESSARY FOR.

FP = FSD =

GA = GALV = GPM =

------ OR W" X D"

Ø"

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&

=

D

# **ABBREVIATIONS**

AND AT	HVAC	=	HEAT/VENT/AIR COND
	חו	=	INSIDE DIAMETER (DIM)
	IN	=	INCH
DIAMETER OR ROUND	INSUI	=	
	INCOL		INCOLATION
	JAN	=	JANITOR
	0/11		of a all of a
	LSD	=	LINEAR SLOT DIFFUSER
	200		
	MAX	=	MAXIMUM
	MD	=	MOTORIZED DAMPER
	MECH	=	MECHANICAI
ALILINIATE	MEON	=	MECHANICAL /FLECTRIC
	MER	=	MANUFACTURER
	MIN	=	MINIMUM
	MISC	=	MISCELLANEOUS
	MO	=	MASONRY OPENING
	mo		
BOTTOM OF STELL	NA	=	NOT APPLICABLE
	NK	=	NECK SIZE
	NTS	=	NOT TO SCALE
	iiiio		NOT TO COME
	ΟA	=	OUTSIDE AIR
	00	=	ON CENTER
		=	OUTSIDE DIAMETER
	OPG	=	OPENING
	010		OI EINING
CORRIDOR	R	=	RISER
CENTED	RA	=	RETURN AIR
	RAD	=	RADIUS
COLD WATER	RAG	=	RETURN AIR GRILLE
OOED WATER	RAR	=	RETURN AIR REGISTER
DETAIL	RM	=	ROOM
DIAMETER	RTU	=	ROOF TOP HV/HVAC UN
DIMENSION			
DOWN	SA	=	SUPPLY AIR
DUCT SMOKE DETECTOR	SAD	=	SUPPLY AIR DIFFUSER
DRAWING	SAR	=	SUPPLY AIR REGISTER
Brannia	SD	=	SMOKE DETECTOR
FACH	SECT	=	SECTION
EXHAUST AIR REGISTER	SP	=	SUMP PUMP
EXHAUST FAN	SPEC	=	SPECIFICATION
FLECTRIC	STD	=	STANDARD
ENGINEER (ING)	STG	=	STORAGE
EQUAL			
EQUIPMENT	TG	=	TRANSFER AIR GRILLE
	TOD	=	TOP OF DUCT
FRESH AIR INTAKE	ΤX	=	TOILET EXHAUST
FLEXIBLE CONNECTION	TYP	=	TYPICAL
FAN COIL UNIT			
FIRE DAMPER	UH	=	UNIT HEATER
FINISHED FLOOR	UTIL	=	UTILITY ROOM
FLOOR			
FIRE PROTECTION	VD	=	VOLUME DAMPER
FIRE/SMOKE DAMPER	VG	=	GAS VENT LINE
	VFD	=	VARIABLE FREQUENCY
GAUGE	VIF	=	VERIFY IN FIELD
GALVANIZED			
GALLONS PER MINUTE	W/	=	WITH
	W/O	=	WITHOUT
	WMS	=	WIRE MESH SCREEN
	WT	=	WEIGHT

INSIDE DIAMETER (DIM) INCH INSULATION
JANITOR
LINEAR SLOT DIFFUSER
MAXIMUM MOTORIZED DAMPER MECHANICAL MECHANICAL/ELECTRICAL/PLUMBING MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING
NOT APPLICABLE NECK SIZE NOT TO SCALE
OUTSIDE AIR ON CENTER OUTSIDE DIAMETER OPENING
RISER RETURN AIR RADIUS RETURN AIR GRILLE RETURN AIR REGISTER ROOM ROOF TOP HV/HVAC UNIT
SUPPLY AIR SUPPLY AIR DIFFUSER SUPPLY AIR REGISTER SMOKE DETECTOR SECTION SUMP PUMP SPECIFICATION STANDARD STORAGE
TRANSFER AIR GRILLE TOP OF DUCT TOILET EXHAUST TYPICAL
UNIT HEATER UTILITY ROOM
VOLUME DAMPER GAS VENT LINE VARIABLE FREQUENCY DRIVE VERIFY IN FIELD
WITH

# SYMBOLS NOT TO SCALE

	<ul> <li>SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS</li> </ul>
	3-WAY SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS.
	= 2-WAY SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS.
	= RETURN AIR REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
	= EXHAUST AIR REGISTER (EAR); GRAVITY RELIEF GRILLE (GRG) WITH NECK SIZE AND CFM INDICATED ON PLANS
-	SUPPLY AIR WALL REGISTER/GRILLE (SAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
	RETURN AIR WALL REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLAN

- PLAN
- $= 0 \text{ R} \quad \text{INDICATES HARD DUCT WITH INTERNAL LINING (DIMENSIONS ARE INSIDE CLEAR)} = \text{INDICATES HARD DUCT WITH INTERNAL LINING (DIMENSIONS ARE INSIDE CLEAR)}$ WIDTH & DEPTH)
  - = INDICATES HARD DUCT (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
- = INDICATES FLEXIBLE DUCT (DIMENSIONS ARE INSIDE CLEAR DIAMETER; LENGTH NOT TO EXCEED FOUR (4) FEET (IN COMMONS AREA ONLY) = DUCT TURN UP (SUPPLY, RETURN, EXHAUST)
- = DUCT TURN DOWN (SUPPLY, RETURN, EXHAUST)
  - = DUCT SMOKE DETECTOR WITH ACCESS DOOR
- FD/AD \_\_\_\_\_ = FIRE DAMPER WITH ACCESS DOOR
- FSD/AD = FIRE/SMOKE DAMPER WITH ACCESS DOOR
  - VD = VOLUME DAMPER
- BDD = BACK DRAFT DAMPER
- M = MOTORIZED DAMPER
  - = INDICATES NEW WALL MOUNTED THERMOSTAT.
- CO2 = CO2 SENSOR ----- = REFRIGERANT PIPING
- ------ = PIPE TURN UP
- ------ = PIPE TURN DOWN

# H.V.A.C. GENERAL NOTES

1. PROCURE AND PAY ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT THE WORK SHOWN. OBTAIN AND PAY FOR ALL FEES	EQUIPMENT:
2. COMPLY WITH ALL FEDERAL, STATE AND MUNICIPAL LAWS AND CODES, ORDINANCES, RULES AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED.	REFER TO SCHEDULES FOR UNIT MANUFACTURER, SIZE, AND CAPACITY DATA  DUCTWORK :
3.GUARANTEE H.V.A.C. SYSTEMS FOR A PERIOD OF ONE YEAR FROM OWNER'S ACCEPTANCE TO BE FREE FROMDEFECTS ANDREPAIR OR REPLACE, AT NO COST TO OWNER, FAILURES OR DEFECTS.DEFECTS.DEFECTS AND	<ul> <li>INDOOR SUPPLY, RETURN AND EXHAUST DUCTWORK, EXCEPT AS INDICATED BELOW, SHALL BE GALVANIZED STEEL CONSTRUCTION. WEIGHTS AND CONSTRUCTION DETAIL SHALL BE IN ACCORDANCE WITH THE LATEST ASHRAE GUIDE AND/OR SMACNA STANDARDS.</li> </ul>
4. H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL HIS DEBRIS.	
5. BALANCE AIR AND WATER SYSTEMS TO QUANTITIES INDICATED. CONTRACTOR TO SUBMIT SIX (6) SETS OF AIR, WATER AND UNIT BALANCING REPORT TO ARCH./ENGR./OWNER PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM.	SHOWER AREAS EXHAUST AND OUTDOOR AIR INTAKE DUCTWORK SHALL BE ALUMINUM CONSTRUCTION, CLASS "A"     SEALED
6. BIDDERS FOR THIS WORK SHALL VISIT THE PREMISES AND CAREFULLY EXAMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING BIDS. NOT ALL EXISTING CONDITIONS HAVE BEEN IDENTIFIED ON DRAWINGS. CONTRACTOR SHALL NOTIFY ARCH. & ENGR. OF ALL DISCREPANCIES PRIOR TO SUBMITTING BID.	<ul> <li>FLEXIBLE DUCTWORK: SHALL NOT EXCEED FOUR (4) FEET IN LENGTH (IN COMMONS BUILDING ONLY). FOR ANY HORIZONTAL FLEX DUCT BRANCH TO A CEILING DIFFUSER, FURNISH A 90° BRACE TO MAINTAIN A LONG RADIUS ELBOW TO THE DIFFUSER ("TITUS" MAKE, MODEL "FLEXRIGHT").</li> </ul>
7. ALL BIDDERS SHALL ALSO FAMILIARIZE THEMSELVES WITH THE MEANS OF ENTRANCE AND EXIT AT THE PROPERTY AND ALL OTHER INFORMATION NECESSARY TO PROPERLY CARRY OUT THE WORK.	<ul> <li>FIRE DAMPER: GREENHECK MAKE, MODEL FD-150 TYPE B (BLADES OUT OF AIRSTREAM), 1-1/2 HOUR RATED (UNLESS OTHERWISE NOTED) UL-555 LABELED DAMPER WITH STANDARD FRAME OR APPROVED EQUAL. PROVIDE WITH A RETAINING ANGLE AND AN ACCESS DOOR.</li> </ul>
8. THE CONTRACTOR SHALL, WITH THE APPROVAL OF THE ENGINEER AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE ALL	PIPING:
REQUIREMENTS AND CONDITIONS FOR THE PROPER AND CONVENIENTLY ACCESSIBLE LOCATIONS OF ALL PARTS OF EACH SYSTEM.	GAS PIPING: SHALL BE SCHEDULE #40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS (PIPE SIZE 2" AND
9. SMALL DETAILS ARE NOT USUALLY SHOWN OR SPECIFIED BUT ALL MATERIALS & COMPONENTS NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OR WORK SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST.	<ul> <li>SMALLER) AND WELDED FITTINGS (PIPE SIZE 2-1/2" AND LARGER)</li> <li>CONDENSATE DRAIN PIPING: SHALL BE HARD COPPER TYPE "L" WITH WROUGHT COPPER FITTINGS.</li> </ul>
10. THE CONTRACTOR SHALL NOTE THAT ALL SERVICE CONNECTIONS MAY NOT BE SHOWN IN TRUE POSITIONS. EACH BIDDER IS	REFRIGERANT PIPING: SHALL BE HARD COPPER TYPE "K" WITH WROUGHT COPPER FITTINGS.
CAUTIONED, THEREFORE, TO VERIFY SAME WITH FIELD CONDITIONS.	INSULATION:
11. CONTRACTOR SHALL CHECK FOR INTERFERENCE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION OF PIPING AND DUCTWORK.	<ul> <li>EXTERNAL DUCT INSULATION: 1" THICK, MIN. 1.5 LB. DENSITY FLEXIBLE FIBERGLASS DUCT INSULATION WITH REINFORCED FOIL FACED FLAME RESISTANT KRAFT VAPOR BARRIER, ADHERED TO DUCT W/ SEALED LAPS AND TAPED</li> </ul>
12. IF AN ITEM OF EQUIPMENT OTHER THAN THE ITEM(S) SPECIFIED IS APPROVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL	JOINTS.
ADDITIONAL COST ARISING OUT OF ADDITIONAL OR CHANGED GENERAL CONSTRUCTION AND MECHANICAL WORK REQUIRED TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.	<ul> <li>INTERNALLY LINED DUCT: 1" THICK, MIN. 1.0 LB. DENSITY RIGID INSULATION ADHERED TO DUCT. DUCTS WIDER THAN 12" TO HAVE WELDED PINS AND WASHERS. DUCT DIMENSIONS AS INDICATED ARE CLEAR INSIDE DUCT DIMENSIONS. \</li> </ul>
13. ALL EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.	NOTES: 1. ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MIN. OF 25' TO AND FROM ANY RTLOR AHU
14. CONTRACTOR TO SUBMIT SIX (6) SETS OF DUCT AIR LEAKAGE TESTING REPORT FOR REVIEW.	2. ALL SUPPLY AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MINIMUM OF 15' DOWNSTREAM OF
15. PROVIDE ONE SET OF SPARE FILTERS FOR ALL INSTALLED HV/HVAC UNITS.	ALL VAV BOXES
16. PROVIDE TWO YEAR MAINTENANCE SERVICE FOR ALL INSTALLED HV/HVAC/MECHANICAL SYSTEMS. THIS INCLUDES A MINIMUM OF THREE PERIODIC SERVICE VISITS TO INSPECT, TEST & CHECK ALL COMPONENTS OF HVAC/HV UNITS AND ANY ADDITIONAL VISITS REQUIRED IF ANY HVAC/HV UNIT FAILS. ALL NECESSARY BELT ALIGNMENTS, PROPER OPERATIONS OF ALL DAMPERS, ETC IS INCLUDED IN THIS	DUCT INSULATION NOTE: PROVIDE A MINIMUM 6" OVERLAP WHERE INTERNAL INSULATION ENDS AND EXTERNAL INSULATION BEGINS.
SCOPE OF WORK.	<ul> <li>ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK CLOSED-CELL ELASTOMERIC INSULATION ("AP ARMAFLEX BLACK LAPSEAL" OR EQUAL).</li> </ul>
17. PROVIDE FIRE DAMPERS/ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS IRRESPECTIVE OF WHETHER IT IS INDICATED ON THE DRAWINGS OR NOT	• FRESH AIR INTAKE AND EXPOSED DUCT: 1" THICK, MIN, 21 B, DENSITY RIGID FIBERGI ASS DUCT INSULATION WITH FOU
	FACING VAPOR BARRIER FASTENED WITH WELDED CLIPS, CEMENTED JOINTS WITH ALUMINUM TAPE.
SLABS AND OTHER RATED PARTITIONS.	OUTDOOR DUCTWORK INSULATION: ALL OUTDOOR DUCTWORK SHALL BE ALUMINUM CONSTRUCTION AND PROVIDED
19. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTAINER SERVICES AND LABOR TO KEEP THE BUILDING FREE OF DEBRIS.	WITH BOTH 2" THICK, 6LB. DENSITY ACOUSTIC LINING WITH IAQ LINER AS WELL AS EXTERNAL INSULATION (MIN. 1.5" THICK AND 6 LB DENSITY). EXTERNAL INSULATION SHALL BE SLOPED (MIN. 1/4" PER FOOT) ON ALL UPWARD FACING
20. CONTRACTOR TO PROVIDE NEW WALL MOUNTED THERMOSTATS FOR ALL AHU'S, RTU'S, VAV BOXES, CABINET HEATERS, UV'S FCU'S, AC UNITS, ETC. IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. CONTRACTOR TO INDICATE THERMOSTAT LOCATIONS ON ALL SHOP DRAWINGS.PROVIDE TAMPER PROOF ENCLOSURES FOR ALL THERMOSTATS LOCATED IN PUBLIC SPACES.	HORIZONTAL SURFACES TO EFFECTIVELY DRAIN WATER OFF OF THE DUCTWORK. ALL DUCT CONNECTION JOINTS ETC SHALL BE GALVANIZED STEEL. DUCTWORK SHALL BE CLASS "A" SEALED AS PER SMACNA. PROVIDE SOLVENT BASED OUTDOOR DUCT SEALANT, RESISTANT TO UV LIGHT, UL 734 LISTED, WATER RESISTANT AS PER SMACNA. PROVIDE 2MM THICK ALUMINIZED FACED LOADED LIMP VINYL SHEET LAGGING WRAPPED AROUND THE DUCT AND FASTENED
24. CONTRACTOR TO NOTE THAT BOTH DWGS. & SPECS. ARE COLLECTIVELY A PART OF BID REQUIREMENTS. IN CASE OF ANY DIFFERENCES BETWEEN VARIOUS DWGS. OR BETWEEN DWGS. & SPECS, THE MOST STRINGENT REQUIREMENT WILL PREVAIL.	WITH ADHESIVE TAPE AND BANDS FOR A WATER TIGHT CONSTRUCTION WHICH MEETS CLASS 1 REQUIREMENTS FOR SMOKE DEVELOPMENT AND FLAME SPREAD RATINGS. SUBMIT VINYL SHEET LAGGING SAMPLE FOR APPROVAL BEFORE INSTALLATION. (TYPICAL FOR ALL OUTDOOR DUCTWORK ON THIS PROJECT)
25. CONTRACTOR TO SUBMIT SIX (6) SETS OF OPERATION & MAINTENANCE MANUALS, INCLUDING A SUMMARY SHEET OF ALL EQUIPMENT MFRS/MODEL #/SERIAL #'S, SHOP DRAWING SUBMITTALS, WARRANTY INFORMATION, O&M MANUALS, PROJECT INFORMATION, CONTACT DETAILS & AS-BUILT DRAWINGS.	AIR DEVICES:
26. CONTRACTOR TO PROVIDE SIX (6) SETS AND AN ELECTRONIC COPY OF AS-RUILT DRAWINGS OF THE ENTIRE SYSTEM	RAR - TITUS MAKE, MODEL 4FL     FAR - TITUS MAKE, MODEL 4FL
21. PROVIDE PROPER IDENTIFICATION TAGS, ARROWS, AND LABELS FOR ALL EQUIPMENT INCLUDING RTUS, DUCTWORK, PIPING, VALVES, ELECTRICAL PANELS, ETC.	TYPE FOR GRID MOUNTING. IF THE TILE IS SMALLER THAN TILE SIZE, THE DIFFUSER SHALL BE PROVIDED WITH FRAME TYPE FOR CEILING TYPE.
28. CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) TRAINING SESSIONS (TWO HOURS EACH) THAT ARE TO BE VIDEOTAPED FOR THE OWNERS USE, TO OWNER'S MAINTENANCE STAFF ON PROPER OPERATION, MAINTENANCE & COMMON TROUBLE-SHOOTING GUIDELINES FOR ALL NEW EQUIPMENT.	<ol> <li>ALL CEILING DIFFUSERS LOCATED IN GYPSUM BOARD AND/OR CONCEALED SPLINE CEILINGS SHALL BE PROVIDED WITH FRAME TYPE FOR SURFACE MOUNTING</li> <li>PROVIDE FACTORY INSTALLED 90° BLANK-OFF PLATE(S) IN ALL 2 AND 3 WAY DIFFUSERS.</li> <li>COLOR OF AIR OUTLETS/INLETS SHALL MATCH THE CEILING COLOR.</li> <li>ALL AIR OUTLETS/INLETS TOILETS, CORRIDORS, AND KITCHEN SHALL BE ALUMINUM CONSTRUCTION</li> </ol>
	ACCESS DOORS
	• FURNISH AND INSTALL ACCESS DOORS AT ALL LOCATIONS WHERE VALVES, DAMPERS, CONTROLS, VENTS, DRAINS,

ETC. ARE TO BE INSTALLED ABOVE OR BEHIND ANY INACCESSIBLE SURFACE (GYPSUM BOARD, CMU, ETC.), IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. ACCESS DOORS SHALL BE A SUITABLE SIZE TO MAINTAIN, OPERATE, REPAIR, AND REPLACE ALL EQUIPMENT. ACCESS DOORS SHALL BE FACTORY PRIMED AND PAINTED TO MATCH THE SURFACE IN WHICH THEY ARE INSTALLED.

MECHANICAL DRAWING LIST	
Drawing#	Title
M0.01	Mechanical Notes & Symbols
M2.01	PARTIAL FIRST FLOOR COMMONS PLAN - EAST
M2.02	PARTIAL FIRST FLOOR COMMONS PLAN - WEST
M2.03	PARTIAL SECOND FLOOR COMMONS PLAN - EAST
M2.04	PARTIAL SECOND FLOOR COMMONS PLAN - WEST
M2.05	COMMONS ROOF MECHANICAL EQUIPMENT PLAN
M3.01	MECHANICAL VRF ZONING PLAN
M6.01	MECHANICAL SCHEDULES
M6.02	MECHANICAL SCHEDULES
M6.03	MECHANICAL KITCHEN EQUIPMENT
M6.04	MECHANICAL KITCHEN EQUIPMENT
M6.05	MECHANICAL KITCHEN EQUIPMENT
M6.06	MECHANICAL KITCHEN EQUIPMENT
M6.07	MECHANICAL KITCHEN EQUIPMENT
M6.08	MECHANICAL KITCHEN EQUIPMENT
M6.09	MECHANICAL KITCHEN EQUIPMENT
M6.10	MECHANICAL KITCHEN EQUIPMENT
M6.11	MECHANICAL DRYER ROOM EQUIPMENT DETAILS
M6.12	MECHANICAL POOL EVACUATOR SYSTEM DETAILS
M6.13	MECHANICAL DETAILS
M6.14	MECHANICAL CONTROL DIAGRAMS

# H.V.A.C. MATERIALS

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2 FIRST FLOOR KEYPLAN M2.01 NOT TO SCALE

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	BROADVIEW
	SENIOR LIVING
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6	090385 PPOFESSIONAL
0	LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP
	LAN JOB #1308.01 PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK. LICENSE NUMBER: 090385 EXPIRATION DATE: 10/31/23
7	
	no. date revision
	Project Name BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number 1308.01
8	Date 4/30/2021 Scale
	As indicated Drawing PARTIAL FIRST FLOOR
	COMMONS PLAN - EAST
	M2.01
9	PERMIT / GMP SET
Γ	© Hord Coplan Macht, Inc.



1 PARTIAL MECHANICAL FIRST FLOOR PLAN - COMMONS WEST M2.02 1/8" = 1'-0"

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	<b>MEPFP ENGINEER</b> LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400
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	EAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP LAN JOB #1308.01 PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK. LICENSE NUMBER: 090385
	EAFINATION DATE: 10/31/23
7	
	no.         date         revision
	Project Name BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number 1308 01
8	Date 4/30/2021 Scale
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	COMMONS PLAN - WEST
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1	© Hord Coplan Macht, Inc.



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	<b>ARCHITECT</b> <b>HCM Design, Inc.</b> 700 E. Pratt St, Suite 1200, Baltimore, MD 21202
	p. 410. 837. 7311 STRUCTURAL ENGINEER Morabito Consultants
	952 Ridgebrook Road, suite 1700, Sparks MD 21152 p. 410.467.2377 FOOD SERVICE
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	MEPFP ENGINEER LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Cashan, NY 10021
	p. 201.447.6400
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	no. date revision
	BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number
	1308.01 Date 4/30/2021
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	ARCHITECT HCM Design, Inc. 700 E. Pratt St, Suite 1200, Baltimore, MD 21202 p. 410. 837. 7311
	STRUCTURAL ENGINEER Morabito Consultants 952 Ridgebrook Road, suite 1700, Sparks MD 21152 p. 410.467.2377
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1	<b>INTERIOR DESIGNER</b> Merlino Design Partnership, Inc. 2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 1940 p. 610 313 9550
	MEPFP ENGINEER LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924
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	Project Name BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number
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	no. date revision
	BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number 1308 01
	Date 4/30/2021
8	Scale 3/32" = 1'-0" Drawing
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	ARCHITECT HCM Design, Inc.
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	p. 410.467.2377 <b>FOOD SERVICE</b> Scopos Hospitality Group 300 West Chestnut Street, Suite 201, Ephrata, PA 17522
1	p. 717.733.5810 INTERIOR DESIGNER Merlino Design Partnership, Inc. 2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 19406
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	EXPIRATION DATE: 10/31/23
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	Project Name BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number
	1308.01 <sup>Date</sup> 4/30/2021
8	Scale
	3/32" = 1'-0" Drawing
	3/32" = 1'-0" Drawing MECHANICAL VRF ZONING PLAN
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Q	3/32" = 1'-0" Drawing MECHANICAL VRF ZONING PLAN M33.01 PERMIT / GMP SET

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TAG No. AF	REAS SERVED	MFG'R.	MODEL No	SUPPLY	OUTDOOR	SUPP	PLY FAN DATA	4	DX C	OOLING COIL		G	AS HEATING	3	CO	EI		ERY WHEEI HEATIN	L NG		POWE	ER EXHAUS	ST FAN	APPRO		ELEC	ECTRICAL	_ C	ONDENSING	SECTION	REFRIGERANT	
				(CFM)	AIR (CFM)	EXT. S.P."	B.H.P. M.H	I.P. COOLIN (TMBH	NG COOLING 1) (SMBH)	EADB/EAWB (°F)	B LADB/LAWB (°F)	INPUT OUTPU (MBH) (MBH)	T EAT/LAT (°F)	GAS PRESSUR (MIN MAX.)	E EADB/EAW (°F)	B LADB/LAWB (°F)	COOLING EAD (TMBH)	B/EAWB LA (°F)	ADB/LAWB (°F)	HEATING (MBH)	CFM EX S.F	XT. .P." В.Н.	.P. M.H.P	. WT. (LBS	G) (LxWxH) (IN.)	V/PH/HZ	MCA I		MPRESSOR	FAN QTY. FLA	TYPE	REMARKS
DOAS-W	WEST WING	TRANE	OAGD144A	4 2,500	2,500	1.5	1.76 6	140	85.6	83.2/69.9	52.3/52.1	200 160	43.2/102.5	7 - 14	95/78	83.2/69.9	78.2	10/8 4	43.2/39.7	135.58 1	1,750 0.7	.75 0.72	2 6	4,158	208 x 74 x 67	460/3/60	41.5	50 17.4 2	2 (2) 9.7	2 2.1	R-410A	PROVIDE DISCONNECT SWITCH; MOTORIZED DAMPERS; GFI CONVENIENCE OUTLET; DUCT SMOKE DETECTOR, VIBRATION ISOLATION ROOF CURB, VFD'S, HIGH EFFICIENCY PREMIUM MOTORS.
DOAS-E	EAST WING	TRANE	OAGD240A	4 3,600	3,600	1.5	2.9 6	230.3	3 134.2	85.5 / 71.6	51.9 /51.5	300 240	36.3 / 98	7 - 14	95/78	85.5/71.6	89.8	10/8 3	36.3/34.1	155.31 2	2000 0.7	.75 0.85	5 6	4,494	208 x 74 x 67	460/3/60	54.8	60 14.8 2	2 (2) 14.7	3 2.1	R-410A	PROVIDE DISCONNECT SWITCH; MOTORIZED DAMPERS; GFI CONVENIENCE OUTLET; DUCT SMOKE DETECTOR, VIBRATION ISOLATION ROOF CURB, VFD'S, HIGH EFFICIENCY PREMIUM MOTORS.

NOTES:
PROVIDE HINGED ACCESS DOORS.
ALL UNITS WITH VFDs ON SUPPLY & EXHAUST FANS SHALL BE FACTORY INSTALLED & WIRED.
ALL UNITS SHALL BE MOUNTED ON 24" HIGH VIBRATION ISOLATION CURB. REFER TO STRUCTURAL DWGS FOR ROOF FRAMING PLAN.
ALL MOTORS SHALL BE PREMIUM EFFICIENCY TYPE.
PROVIDE OUTDOOR AIR WEATHERHOOD.
PROVIDE DUAL ENTHALPY FULLY MODULATING ECONOMIZER CONTROLS.
PROVIDE MODULATING GAS FURNACE WITH 10:1 TURN DOWN RATIO.
PROVIDE VFDs FOR COMPRESSORS.
UNIT SHALL BE PROVIDED WITH SINGLE POINT POWER CONNECTION.
PROVIDE HOT GAS REHEAT FOR HUMIDITY CONTROL ON ALL UNITS.

								P	ACKA	AGE	D RO	OOF	ТО	PG	AS	HEA		IG /	DX	COOL	ING L	JNIT	SC	CHE	DULE	Ξ					( TRANE AS STANDA	2D)			AIR F	<b>'</b> URIF	FICAT	ION l	JNIT SO	CHEDU	ILE	(PLASMA AIR AS STANDARI
TAG	AREA SERVE		Y SUPPL'				GAS HEA	TING				DX COC	LING			S	UPPLY FA	AN DATA		FILTER	ELECTRICA DATA			FFR		NS	APPROX	MODEL	MANUEA		REMARKS	TAG	LOCATIO	N QTY	MAKE	MODEL	QTY OF	MAX RATEI	AMPS	DIMEN (LxWx	SIONS 1) (IN)	NOTES
1/10				AIR (CFM)	) INPUT (MBH)	OUTPL (MBH	Г EAT (°F)	LAT (°F)	MIN GAS PRESSUR	E COOLIN TMBH	IG COOLII SMBI	ING EAD	B EAWI (°F)	B LADB (°F)	LAWB (°F)	ХТ. ТОТ 3.Р. S.	FAL P.	P. M.H.P.	FLA	EFFICIENCY	V - Ph - Hz				(in.)	')	(Lbs)	MODEL		OTENEIN									(	(	., (,	
RTU-A	CARDIO ROO	M YES	3200	710	250	200	54	112.10	4.5	109.24	4 81.89	9 79.5	66.25	5 56.34	55.16 1	1.25 1.0	61 1.74	2.75	3.6	MERV-13	460-3-60	22	30	12.4 9	9 <sup>11</sup> / <sub>16</sub> " x 63 <sup>3</sup> / <sub>16</sub> "	" x 52 <sup>5</sup> / <sub>16</sub> "	1608	YHC120	TR/	ANE	SEE NOTES BELOW	AP-1	DOAS-E & RTU A THRU F THRU (	W JC&7 G	PLASMA AIR	: PB-018	3	3,750	90	18 x 0.	5 x 3.5	SEE NOTES BELOW
RTU-B	MOVEMENT ROOM	YES	2000	970	150	120	36.1	91.7	7	98.1	58.8	3 84	70	55.6	54.7	1.5 2. <sup>-</sup>	11 1.59	2.5	3.5	MERV-13	460-3-60	26.1	40 <sup>-</sup>	10.3	161 x 52 x 5	55	1901	OABD108A4	TR	ANE	SEE NOTES BELOW	AP-2	RTU-D &	E 2	PLASMA AIR	< ₽B-030	5	6,250	150	24 x 0.	5 x 3.5	SEE NOTES BELOW
RTU-C	PERFORMAN ROOM	YES	3700	910	350	286.67	63	132.75	2.5	143.44	100.1	17 79	66.7	55.44	54.11 1	.25 1.:	25 2.12	3.0	4.8	MERV-13	460-3-60	30	40 <sup>-</sup>	12.1 1	21 <sup>11</sup> / <sub>16</sub> " x 84 <sup>3</sup> / <sub>10</sub>	<sub>6</sub> " x 56 <sup>5</sup> / <sub>16</sub>	2655	YHH150	TR/	ANE	SEE NOTES BELOW											
RTU-D	WEST DININ AREA	G YES	5700	750	350	290.41	61	106.27	2.5	201.66	6 144.5	53 77.6	64.8	54.72	53.39 1	.25 1.2	<u>25</u> 3.31	5.0	7.6	MERV-13	460-3-60	41	50 1	11.8 1	21 <sup>11</sup> / <sub>16</sub> " x 84 <sup>3</sup> / <sub>4</sub>	" x 66 <sup>1</sup> /4"	2758	YHH210	TR/	ANE	SEE NOTES BELOW	1. BASI	<u>:</u> S OF DESIGN: <b>HALL BE FIFI</b>	PLASMA AI	R. <b>ED AND WIRF</b>				E AIR INI ET SIDI		וור (A SEF	PARATE POWER FEED IS NO
RTU-E	EAST DINING AREA	YES	5300	2000	350	289.43	43.6	92.29	2.5	207.83	3 152.4	48 82.5	67.5	56.47	55.13 1	.25 1.2	25 2.99	5.0	7.6	MERV-13	460-3-60	41	50 <sup>- ^</sup>	11.8 1	21 <sup>11</sup> / <sub>16</sub> " x 84 <sup>3</sup> / <sub>4</sub>	" x 66 <sup>1</sup> /4"	2758	YHH210	TR	ANE	SEE NOTES BELOW	3. IF CC	D.)	SUBSTITUTE	ES BASIS OF D	JESIGN WITH	H ANOTHER N		ER, CONTRACTO	R SHALL COORD	NATE ALL	ELECTRICAL AND
RTU-F	FOOD ROOM	I YES	1000	225	80	65.41	60	119.40	4.5	34.62	23.74	74 80	67	58.43	56.35 0	.90 0.9	94 0.46	0.750	3.7	MERV-13	460-3-60	12	15 <sup>^</sup>	13.0	69 <sup>7</sup> / <sub>8</sub> " x 44 <sup>1</sup> / <sub>4</sub> "	x 36 <sup>1</sup> / <sub>4</sub> "	767	YHC037E4RM	IA TR/	ANE	SEE NOTES BELOW	4. BI-PC	NICAL CHANG	ES. ION SYSTEN VERS MUST I	AS REQUIRIN		LE GLASS TU	BES ARE NOT				
RTU-G	WOODSHOP	YES	960	100	80	65.41	60	121.90	4.5	34.27	23.42	2 80	67	57.86	55.98 0	.90 0.9	90 0.44	0.750	3.7	MERV-13	460-3-60	12	15 ^	13.0	69 <sup>7</sup> / <sub>8</sub> " x 44 <sup>1</sup> / <sub>4</sub> "	x 36 <sup>1</sup> / <sub>4</sub> "	767	YHC037E4RM		ANE	SEE NOTES BELOW	6. IONIZ 7. UNIT	ZATION SYSTE	EM SHALL HA	AVE BEEN TE D TO MATCH (	STED AND C	CRAMBER 12 CERTIFIED BY (VIF).	UL 2998 AS A	N OZONE FREE D	EVICE.		
NOTE: 1. PR( 2. PR( 3. ALL 4. PR( 5. PR( 6. PR( 7. UNI 8. INTE BUILD INTER 9. PR(	S: DVIDE HINGED / DVIDE VFD ON S MOTORS SHAI VIDE OUTDOOI VIDE GAS FUR VIDE TWO-STA SHALL BE PRO RNAL AUTOMA NG MANAGEME OCKS, RELAYS	ACCESS DOC SUPPLY FAN. L BE PREMIL R AIR WEATH NACE. GE COOLING VIDED WITH TIC TEMPER SNT SYSTEM S, UPS, ETC. ECT SWITCH	ORS. ALL U UM EFFICIE HERHOOD. G. PROVIDE H SINGLE PA ATURE CO I (BMS). REI TO ENSUR H; MOTORIZ	NITS SHALL I NCY TYPE. HOT GAS RI OINT POWER NTROLS SHA ER TO ATC E THESE UNI ED DAMPER	BE MOUN EHEAT FC R CONNEG ALL BE PF DIAGRAM ITS OPER S; GFI CC	DR HUMIDI CTION. ROVIDED B IS AND SPI ATE ON EI INVENIENC	Y CONTRO Y CONTRO ATC CONT CIFICATION ERGENCY E OUTLET;	ATION ISOI L ON ALL U IRACTOR. IS. POWER. AT 20" HIGH VI	ATION CURI NITS. THE ATC CO C CONTRAC BRATION ISC	B. NTRACTOR CTOR SHALL DLATION RC	R SHALL S LL ALSO PF OOF CURE	SHIP THE ROVIDE A B, VFD'S,	DDC CO NY ADD HIGH EF	NTROLS F ITIONAL U FICIENCY	OR ALL U PS REQU PREMIUM	NITS TO IRED TO 1 MOTOF	THE UNIT ENSURE :S.	MANUFA	ACTURER INT END A	FOR FACTORY	MOUNTING.	THE ATC CC ARE OPERA	DNTRA(	CTOR SI	HALL PROVIDE G A POWER O	E, MOUNT UTAGE. TI	AND WIRE	ALL EXTERNAL END COMPUTE	COMPONEN <sup>-</sup> R SHALL BE F	TS. ALL UN FED FROM	NITS SHALL BE TIED INTO THE NEW IN THE EMERGENCY PANEL AS WELL.	8. ALL U	JNITS SHALL	BE FACTORY	YMOUNTED				NOT SHOWN ON	JLANS.		

												POOL DEHUMIDIFICATION/ENERGY RECOVERY UNIT SCHEDULE																					
																																	(SERESCO AS STANDARD)
TAG	AREAS	MFG'F	R. N	MODEL No	AI o.	R CAPA	ACITY	SUP	PLY AIF	R FAN	E EXH	VACUAT AUST AI	for Ir fan	MINIMUM	POOL AIR DESIGN	POOL	MOISTURE		DX C	COOLIN	IG COIL		IN	DIRECT   	NATURA HEAT	AL GAS	ELECTRI	CAL DA	ATA	SUPPLY & EXHAUST	APPROX. UNIT WT.	UNIT DIMENSIONS	REMARKS
	SERVE				SUF (C	PPLY RI FM) (	ETURN (CFM)	SUPPL' (CFM)	Y ESP	MOTOF (HP)	EXHAU: (CFM)	ST ESP	MOTOR (HP)	AIR (CFM)	TEMP (°F)	RH (%	) (LB/HR)	EADB EA (°F) ('	WBLADI °F) (°F)	BLAWE (°F)	B CA (MBH	PACITY	EA1	T LAT ) (°F)	INPUT ( (MBH)	OUTPUT (MBH)	VOLTS/PH/HZ	FLA N		OP FILTERS	(LBS)	(LxWxH) (IN.)	
PDHU-	POOL	SERES	со и	IE-010-PB	-X 6,	500	4,650	6,500	1.00	2.4	1850	0.5	1.2	1,850	90	60	64.3	78	65 55	54.5	149	12.4			200	160	460/3/60	32	38 5	50 MERV13 PLEATED	-	318x80x92	SEE NOTES BELOW
NOTES															1	1											1 1		I	POOL DESI	GN CRITER	<u>RIA:</u>	
1. PR AIF MO OU ISC	VIDE HIN WEATHE ORIZED LET, DUO ATION R	GED ACC RHOOD, I DAMPERS T SMOKE DOF CUR	ESS D DISCOI 6, GFI ( E DETE B.	DOORS, O NNECT S' CONVENI ECTOR, V	OUTDOC WITCH, ENCE IBRATIC	DR 2 3 DN 4	2. ALL TYP 3. PRO 4. UNI POV	. Motof ?e. Dvide M T Shali Wer Co	RS SHA IODULA L BE PF )NNEC1	ALL BE P ATING H ROVIDEI FION.	REMIUM OT GAS D WITH \$	1 EFFICIE REHEAT SINGLE F	ENCY T. POINT	5. PI S BI C C C 6. PI M	ROVIDE UN TANDALON UILDING M ONTROLLE OMPLETE ROVIDE DU AIN RETUR	NITARY E NE OPEF ANAGEM ERS ANE OPERAT JCT SMC RN DUCT	DDC CONTRO RATION AND T MENT SYSTEI D CONTROL C TING SYSTEM DKE DETECTO T.	L SYSTE TE-IN TO A. PROV OMPONE DR WITH	M CAPAI NEW CA IDE ALL ENTS FO ACCESS	BLE OF ARRIEF NECES R A S DOOF	= 7 R iVu SSARΥ ε R IN	. PRC NC-2 . UNIT ISOL	VIDE V Z-2V. SHALI .ATION	NITH PAG L BE PRG I CURB.	CKAGED	) AIR CC	OOLED CONDEN	SER M (IBRAT	10del FION	POOL WAT POOL AIR T POOL RELA AVERAGE (	ER TEMPE EMPERAT ATIVE HUM OCCUPANO	RATURE: 84 URE: 87 IDITY: 57 <sup>0</sup> CY: 10	4°F 7°F % ) + 1 LIFE GUARD

			VAI	RIA	BLE	EA	IR \	/OL	_UN	IE BO	X SCF	IEDULE	( <u>TITUS</u> AS STANDARD)						EXHA	AUST F	AN SC	CHEDU	LE	( <u>GR</u>	<u>EENHECK</u> AS STAI	NDARD)
	AS	SOCATED		MIN	ΜΛΥ	EL		IEATING	E	ELECTRICAL DATA								STATIC	E	ELECTRICAL D	ATA	DIMENSIONS	APPROX			
TAG AREA SERVED	0	UNIT	SIZE	CFM	CFM	MIN. KW	MAX. KW	EAT (°F)	LAT (°F)	V - Ph - Hz	MODEL	MANUFACTURER	REMARKS	TAG	TYPE	AREA SERVED	CFM	LOSS (IN.W.C.)	BHP MHF	RPM	V / Ph / Hz	(L x W x H) (In.)	WEIGHT (Lbs)	MODEL	MANUFACTERER	NOTES
VAV-D-1 REFER TO PLAN	NS	RTU-D	10	248	1430	2.5	21	61	90	480 - 3 - 60	LMHS-10-EH	KRUEGER	SEE NOTE(S) BELOW	TX-1	ROOF MTD.	ROOMS 150, 156	800	0.5	0.13 1/4	1,308	115/60/1	19 x 19 x 36	26	G-103-VG	GREENHECK	1,3
VAV-D-2 REFER TO PLAN	NS	RTU-D	12	357	2060	2.5	30	61	90	480 - 3 - 60	LMHS-12-EH	KRUEGER	SEE NOTE(S) BELOW	TX-2	ROOF MTD.	ROOM 195	350	0.5	0.07 1/6	1,349	115/60/1	17 x 17 x 27	31	G-95-VG	GREENHECK	1,3
VAV-D-3 REFER TO PLAN	NS	RTU-D	6	89	515	2.5	7.5	61	90	480 - 3 - 60	LMHS-06-EH	KRUEGER	SEE NOTE(S) BELOW	TX-3	ROOF MTD.	ROOMS 202, 205	350	0.5	0.07 1/6	1,349	115/60/1	17 x 17 x 27	12	G-95-VG	GREENHECK	1,3
VAV-D-4 REFER TO PLAN	NS	RTU-D	14	486	2800	3.0	36	61	90	480 - 3 - 60	LMHS-14-EH	KRUEGER	SEE NOTE(S) BELOW	TX-4	INLINE	ROOMS 112, 113	400	0.38	0.08 1/6	1,181	115/60/1	12 x 24 x 12	39	CSP-A700-VG	GREENHECK	1
VAV-E-1 REFER TO PLAN	NS	RTU-E	9	201	1160	2.5	16	43.6	90	480 - 3 - 60	LMHS-09-EH	KRUEGER	SEE NOTE(S) BELOW	TX-5	ROOF MTD.	ROOMS 135, 136	400	0.5	0.08 1/6	1,370	115/60/1	17 x 17 x 27	12	G-95-VG	GREENHECK	1,3
VAV-E-2 REFER TO PLAN	NS	RTU-E	6	89	515	2.5	7.5	43.6	90	480 - 3 - 60	LMHS-06-EH	KRUEGER	SEE NOTE(S) BELOW	NOTES:			500	0.5	0.1 1/0	1,/	110/00/1	11 × 11 × 21	20	6-33-46	GREENILER	
VAV-E-3 REFER TO PLAN	NS	RTU-E	14	486	2800	3.0	36	43.6	90	480 - 3 - 60	LMHS-14-EH	KRUEGER	SEE NOTE(S) BELOW	1. U 2. U 3. P	SE AS TOILET EXH SE AS WASHER R ROVIDE MIN. 18" H	HAUST. OOM EXHAUST. FAN HIGH CANTED ALUMI	I SHALL BE NUM ROOF	E RUNNING WHILE F CURB WITH DAI	E WASHERS IN MPER TRAY, LE	OPERATION. ED CERTIFIED E	BACKDRAFT DAM	MPER, BIRDSCREE	N AND DISCON	INECT SWITCH	. TIE NEW FAN INT	0
VAV-E-4 REFER TO PLAN	NS	RTU-E	10	248	1430	2.5	21	43.6	90	480 - 3 - 60	LMHS-10-EH	KRUEGER	SEE NOTE(S) BELOW	E	XISTING BMS.											
																I	ELEC	CTRIC	UNIT I	HEATE	R SCH	HEDULE			( <u>QMARK</u> AS STA	NDARD)
2. THE CONTRACTOR SHOULD OF PROVIDING A CON	HALL HA	VE THE OF	PTION OF	PROVID EACH V	NG ONE AV BOX.	1) CON	TROL TR	ANSFOR	RMER FOF	R UP TO SIX VA	/ BOXES ON ON	IE FLOOR. INSTEAD	ZONE SENSOR, INSULATED CASING, DISCONNECT SWITCH AND WALL	TAG		THERMOSTAT		ELECTRICAL D	ATA		APPROX			NOTES		
3. TRANSFORMERS FOR CONTRACTOR, UNLES	R ALL VA SS OTHE	ARIABLE AIF	R VOLUM	E BOXES	SHALL E	E PROV ED AND	/IDED BY INSTALL	MECHAI ED.	NICAL CO	NTRACTOR AN	D INSTALLED B	Y ELECTRICAL	MOUNTED THERMOSTAT.		LOCATION	THEINIOGTAT	AMPS	WATTS	V / Ph / Hz		(Lbs)			NOTES		
<ol> <li>ALL THERMOSTATS S</li> <li>ALL VAV BOXES SHAL</li> <li>INTERNAL AUTOMATIC</li> </ol>	HALL BE L BE AC C TEMPE	E PROGRAM COUSTICAL ERATURE C	MMABLE	WITH IA	D IN A TA Q LINER. BE PRO	MPER P			RE. TOR. THE	E ATC CONTRA	CTOR SHALL SH	IIP THE DDC		EUH-1	MECH ROOM #	CEILING HUNG	14.5	3000	208 / 1 / 60	14 x 7-1/2 x 16	5 24	MUH0381	QMARK	SEE NOTES	BELOW	
CONTROLS FOR ALL U EXTERNAL COMPONE ATC DIAGRAMS AND S	UNITS TO ENTS. AL SPECIFIO	O THÉ UNIT _L UNITS SH CATIONS.	I MANUFA HALL BE <sup>-</sup>	IED INT	R FOR FA	CTORY I	MOUNTIN JOHNSON	NG. THE A N METAS	ATC CON SYS BUILD	IRACTOR SHA	LL PROVIDE, MC ENT SYSTEM (B	OUNT AND WIRE ALL MS). REFER TO		EUH-2	MAINTENANCE	CEILING HUNG	14.5	3000	208 / 1 / 60	14 x 7-1/2 x 16	5 24	MUH0381	QMARK	SEE NOTES	BELOW	
7. ELECTRICAL HEATING HEATING ARE THE RT	g is pro Tus and	OVIDED AS	A BACKI C REHEA	JP ONLY	AND SH	OULD B	E CONNE CLOSED,	ECTED T	O THE EN S RTUS A	IERGENCY GEI RE DOWN.	NERATOR. MAIN	I SOURCE OF		EUH-3	MECH ROOM #	CEILING HUNG	14.5	3000	208 / 1 / 60	14 x 7-1/2 x 16	6 24	MUH0381	QMARK	SEE NOTES	BELOW	
														NOTES:	CEILING HUNG U	NIT HEATER. PROVI	DE HANGIN	IG SUPPORTS, D	ISCONNECT SV	VITCH, DOUBLE	POLE LINE BRE	AK THERMOSTAT		N. COORDINATE	WITH G.C.	

WOODSHOP OUTDOOR GAS FIRED MAKE UP AIR UNIT SCHEDULE	( <u>TRANE</u> AS STANDARD)
TAG         SUPPLY FAN VFD         SUPPLY FAN VFD         SUPPLY FAN VFD         MINIMUM OUTSIDE AIR (CFM)         Imput (MBH)         OUTPUT (MBH)         EAT (°F)         LAT (°F)         MIN GAS PRESSURE         SUPPLY FAN DATA         FILTER EFFICIENCY         MCA         MOP         DIMENSIONS (L x W x H) (IN.)         APPROX. WEIGHT (IB.)         MODEL         MANUFACTERER         NOTES	TAG       LOCATION       UNIT SERVED       MIN CFM       MAX CFM       STATIC PRESSURE LOSS (IN H2O)       THROAT (LxW) (In.)       CURB CAP (In)       MODEL       MANUFACTERER       NOTES
MUA-5       WOODSHOP       YES       2,000       2,000       200       160       0       75       7"       0.75       0.9       0.66       1       MERV-8       460 - 3 - 60       2.3       15       133 x 44 x 44       1,369       GRCA20GFMF0       TRANE       SEE NOTES BE	RV-3         WEST ROOF         TX-4         400         400         0.058         10 x 10         19 x 19         GRSR-10         GREENHECK         SEE NOTES BELOW
NOTES: 1. ATC CONTRACTOR SHALL PROVIDE, MOUNT AND WIRE INTERNAL AND EXTERNAL ATC COMPONENTS. REFER TO ATC DIAGRAMS AND SPECIFICATIONS. 2. PROVIDE TWO (2) SETS OF SPARE FILTERS, MOTORIZED BACKDRAFT DAMPER, 100% O.A. SCREENED INLET AIR HOOD, DAMPER, SMOKE DETECTOR, FILTER RACK, MECHANICAL MODULATION CONTROL, NON-FUSED DISCONNECT SWITCH, THERMOSTAT WITH LOCKING CO VIBRATION ISOLATION CURB. INTERLOCK WITH DUST COLLECTION SYSTEM.	NOTES:         1. PROVIDE 20" HIGH, CANTED, ALUMINUM ROOF CURB.         2. PROVIDE WITH A MOTORIZED DAMPER AND AN END SWITCH. INTERLOCK WITH ASSOCIATED MUA.         3. PROVIDE WITH ALUMINUM WIRE MESH INSECT SCREEN.

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)		ARCHITECT HCM Design, Inc. 700 E. Pratt St, Suite 1200, Baltimore, MD 21202 p. 410. 837. 7311
		STRUCTURAL ENGINEER Morabito Consultants 952 Ridgebrook Road, suite 1700, Sparks MD 21152 p. 410.467.2377
		<b>FOOD SERVICE</b> Scopos Hospitality Group 300 West Chestnut Street, Suite 201, Ephrata, PA 17522 p. 717.733.5810
	1	INTERIOR DESIGNER Merlino Design Partnership, Inc. 2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 19400 p. 610.313.9550
		<b>MEPFP ENGINEER</b> LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400
		HCM / LCS
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		BROADVIEW
ют		SENIOR LIVING AT PURCHASE COLLEGE
	3	AT AT MON
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	6	LAN ASSOCIATES
		Engineering, Planning, Architecture, Surveying, LLP LAN JOB #1308.01 PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK. LICENSE NUMBER: 090385 EXPIRATION DATE: 10/31/23
		Project Name BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number 1308.01
	8	Date 4/30/2021 Scale
		1/8" = 1'-0" Drawing MECHANICAL SCHEDULES
		MO.UI
	9	PERMIT / GMP SET

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ROOM NUMBER	ROOM NAME	FLOOR AREA (SQ. FT.)	REQUIRED O.A. PER SQ. FT.	REQUIRED O.A. FOR SPACE	NO. OF PEOPLE	REQUIRED O.A. PER PERSON	REQUIRED OA FOR OCCUPANTS	DESIGN OA (CFM)	REMARKS
100	VEST.	114	0.06	6.84	0	5	0	10	
101	LOBBY	1172	0.06	70.32	13	5	65	140	
102	CORRIDOR	846	0.06	50.76	0	5	0	60	
103	CONF. ROOM	303	0.06	18.18	16	5	80	100	
104	ADMIN SUITE	356	0.06	21.36	0	5	0	30	
105		204	0.06	12.24	3	5	15	30	
106	REC. STORAGE	303	0.06	18.18	0	5	0	20	
107		146	0.06	6.72	1	5	5	20	
109	ACCT. DIRECTOR	112	0.06	6.96	1	5	5	20	
110	ADMIN ASSISTANT	104	0.06	6.24	1	5	5	20	
111	EXEC. DIRECTOR	182	0.06	10.92	1	5	5	20	
112	MEN'S ROOM	172	0.12	20.64	0	5	0	30	
113	WOMEN'S ROOM	172	0.12	20.64	0	5	0	30	
114	MAIL	391	0.06	23.46	0	5	0	30	
115	CORRIDOR	747	0.06	44.82	0	5	0	50	
116	CORRIDOR	405	0.06	24.3	0	5	0	30	
117	MECHANICAL ELECT.	678	0.06	40.68	14	10	140	190	
118	CENTRAL LAUNDRY DIRTY	311	0.06	18.66	5	25	125	150	
119	CLEAN MAINTENANCE	404	0.06	24.24	3	25	75	100	
120	STORAGE	242	0.06	14.52	0	5	0	20	
121		493 242	0.06	29.58 14 58	10	10 ج	25	130 <u>4</u> 0	
122		100	0.06	12	0	5	0	20	
124	CORRIDOR	157	0.06	9.42	0	5	0	10	
125	EMPLOYEE APP.	101	0.06	6.06	1	5	5	20	
126	PERSON. ASSISTANT	97	0.06	5.82	1	5	5	20	
127	PERSON. DIRECTOR	90	0.06	5.4	1	5	5	20	
128	MAINT. OFFICE	93	0.06	5.58	1	5	5	20	
129	SEC. ROOM	92	0.06	5.52	1	5	5	20	
130	TRASH/RECYCLE	1325	0.06	79.5	0	5	0	80	
131	CORRIDOR	778	0.06	46.68	5	5	25	80	
132	WOODWORKING	372	0.06	22.32	8	10	80	110	
133		261	0.12	31.32	0	5	0	40	
134	LOUNGE	406	0.06	24.36	10	5	50	80	
135	WOMEN'S LOCKER EMPLOYEE	230	0.25	57.5	0	5	0	60	
130	MEN'S LOCKER	107	0.25	6.42	5	5	25	40	
139	BUSINESS CENTER	311	0.06	18.66	2	5	10	30	
140		961	0.12	115.32	15	7.5	112.5	230	
141	LIBRARY	604	0.12	72.48	6	5	30	110	
142	CORRIDOR	859	0.06	51.54	0	5	0	60	
143	GAME ROOM	650	0.06	117	14	7.5	105	230	
144	CLASSROOM	751	0.12	90.12	27	10	270	370	
145	PREP KITCHEN	500	0.12	60	10	7.5	75	140	
146	DRY STORAGE	138	0.06	8.28	0	5	0	10	
147	CORRIDOR	529	0.06	31.74	0	5	0	40	
148		105	0.06	6.3	1	5	5	20	
149		105	0.06	ti.3	1	5	5	20	
152		2586	0.20	129	50	5	250	1500	
155	POOL STORAGE	159	0.06	9.54	0	5	0	10	
156	MEN'S LOCKER	516	0.25	129	0	5	0	130	
158	CORRIDOR	723	0.06	43.38	0	5	0	50	
159	CARDIO/STRENGTH	1094	0.06	65.64	11	20	220	290	
161	SALON	674	0.12	80.88	17	20	340	430	
162	MIXING	71	0.06	4.26	5	5	25	30	
163	SPA	143	0.06	8.58	5	5	25	40	
164	ADMIN SUITE	550	0.06	33	3	5	15	50	
165	CLOSING ROOM	251	0.06	15.06	2	5	10	30	
166	WORK ROOM	81	0.06	4.86	1	5	5	10	
167		291	0.06	17.46	2	5	10	30	
160	RES COUNS	132	0.06	r.92	1	5	5	20	
170	RES. COUNS.	149	0.00	8.94	1	5	5	20	
171	MARKETING DIR	205	0.06	12.3	1	5	5	20	
172	PACKAGE	168	0.06	10.08	0	5	0	20	
173	STORAGE	95	0.06	5.7	0	5	0	10	
174	REC. DESK	274	0.06	16.44	6	5	30	50	
175	CORRIDOR	560	0.06	33.6	0	5	0	40	
177	CORRIDOR	577	0.06	34.62	0	5	0	40	

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				VENTIL	ATION	INDEX			
ROOM NUMBER	ROOM NAME	FLOOR AREA (SQ. FT.)	REQUIRED O.A. PER SQ. FT.	REQUIRED O.A. FOR SPACE	NO. OF PEOPLE	REQUIRED O.A. PER PERSON	REQUIRED OA FOR OCCUPANT S	DESIGN OA (CFM)	REMARKS
180	STORAGE	79	0.06	4.74	0	5	0	10	
181	FOOD	625	0.18	112.5	8	7.5	60	180	
182	PERFORMANCE	2183	0.06	130.98	100	5	500	640	
185	MAKER/ART	847	0.18	152.46	17	10	170	330	
188	CORRIDOR	245	0.06	14.7	0	5	50	135	
189	ACTIVE LEARNING	805	0.12	96.6	29	10	0	20	
192	MOVEMENT	1125	0.06	67.5	45	20	290	390	
200	CORRIDOR	1391	0.06	83.46	0	5	0	90	
201	CORRIDOR	490	0.06	29.4	0	5	0	30	
207	MULTI-PURPOSE SPACE	960	0.06	57.6	50	5	250	310	
210	HOST	82	0.06	4.92	1	5	5	10	
211	DINING	2608	0.18	469.44	50	7.5	375	850	
212	COCKTAIL LOUNGE	1220	0.18	219.6	10	7.5	75	300	
213	DESTINATION DINING	827	0.18	148.86	25	7.5	375	850	
214	CENTRAL KITCHEN	2075	0.12	249	42	7.5	315	570	
215	LEARNING KITCHEN	896	0.12	107.52	18	7.5	135	250	
216	PRIVATE DINING	400	0.18	72	30	7.5	225	300	
217	CORRIDOR	1393	0.06	83.58	0	5	0	90	

# TAG LOCAT ECR-1 LOBBY ECR-2 VESTIBUL

# INDOOR VRF AC DUCTED / HEAT PUMP TERMINAL UNIT SCHEDULE

																				( <u>MITSUBISHI</u> AS STANDARD)
TAG	ROOM SERVED	QTY	LOW-HIGH		COO	LING		HEATING	REFRIG	PIPE CC	NNECTI	ONS (In.)	ELECTRI	CAL DAT	A	DIMENSIONS (L x W x H)	APPROX. WEIGHT	MODEL	MANUFACTERER	NOTES
				TMBH	EADB	EADB	EAWB	IMBH	TYPE	RS	RL	COND.	V - Ph - Hz	MCA	MOP	(In.)	(Lbs)			
AC-D-08	REFER TO PLANS	2	194 - 317	8	95	80	67	9	R-410A	1/2"	1/4"	1"	208 - 1 - 60	0.62	15	27-9/16 x 31-1/8 x 7-7/8	42	PEFY-P08NMSU-E	MITSUBISHI	SEE NOTES BELOW
AC-D-12	REFER TO PLANS	3	211 - 370	12	95	80	67	13.5	R-410A	1/2"	1/4"	1"	208 - 1 - 60	0.67	15	27-9/16 x 31-1/8 x 7-7/8	46	PEFY-P12NMSU-E	MITSUBISHI	SEE NOTES BELOW
AC-D-18	REFER TO PLANS	1	353 - 529	18	95	80	67	20	R-410A	1/2"	1/4"	1"	208 - 1 - 60	0.88	15	27-9/16 x 39 x 7-7/8	54	PEFY-P18NMSU-E	MITSUBISHI	SEE NOTES BELOW
AC-D-24	REFER TO PLANS	2	423 - 706	24	95	80	67	27	R-410A	5/8"	3/8"	1"	208 - 1 - 60	1.17	15	27-9/16 x 46-7/8 x 7-7/8	62	PEFY-P24NMSU-E	MITSUBISHI	SEE NOTES BELOW
AC-D-30	REFER TO PLANS	1	618 - 883	30	95	80	67	34	R-410A	5/8"	3/8"	1 1/4"	208 - 1 - 60	2.73	15	28-7/8 x 43-5/16 x 9-7/8	67	PEFY-P30NMAU-E	MITSUBISHI	SEE NOTES BELOW
AC-D-36	REFER TO PLANS	5	936 - 1342	36	95	80	67	40	R-410A	5/8"	3/8"	1 1/4"	208 - 1 - 60	4.23	15	28-7/8 x 55-1/8 x 9-7/8	86	PEFY-P36NMAU-E	MITSUBISHI	SEE NOTES BELOW
AC-D-48	REFER TO PLANS	4	980 - 1400	48	95	80	67	54	R-410A	5/8"	3/8"	1 1/4"	208 - 1 - 60	3.41	15	28-7/8 x 55-1/8 x 9-7/8	86	PEFY-P48NMAU-E	MITSUBISHI	SEE NOTES BELOW
AC-D-54	REFER TO PLANS	1	989 - 1412	54	95	80	67	60	R-410A	5/8"	3/8"	1 1/4"	208 - 1 - 60	4.18	15	35-7/16 x 47-1/16 x 15	157	PEFY-P54NMHU-E	MITSUBISHI	SEE NOTES BELOW

NOTES: 1. ALL INDOOR UNITS DUCTED UNITS SHALL BE PROVIDED A CONDENSATE LIFT PUMP FROM THE UNIT MANUFACTURER AND FIELD INSTALLED. 2. EACH CEILING-MOUNTED CASSETTE UNIT SHALL HAVE VARIABLE SPEED DC MOTOR, 4-WAY AIRFLOW GRILLE.

3. PROVIDE W/ WALL-MOUNTED REMOTE CONTROLLERS W/ OCCUPANCY SENSORS FOR AC UNITS IN ALL ROOMS.

4. PROVIDE W/ PROPER REFRIGERANT CHARGE FOR ALL UNITS. 5. REFER TO DWG. FOR VRF SYSTEM & ASSOCIATED ACCUS. REFER TO SPEC. SECTION FOR ADDITIONAL INFORMATION. 6. INTERNAL AUTOMATIC TEMPERATURE CONTROLS SHALL BE PROVIDED BY ATC CONTRACTOR. THE ATC CONTRACTOR SHALL SHIP THE DDC CONTROLS FOR ALL UNITS TO THE UNIT MANUFACTURER FOR FACTORY MOUNTING. THE ATC CONTRACTOR SHALL PROVIDE, MOUNT AND WIRE ALL EXTERNAL COMPONENTS. ALL UNITS SHALL BE TIED INTO THE NEW BUILDING MANAGEMENT SYSTEM (BMS). REFER TO ATC DIAGRAMS AND SPECIFICATIONS.

# INDOOR VRF AC CASSETTES/ HEAT PUMP TERMINAL UNIT SCHEDULE

																				( <u>MITSUBISHI</u> AS STANDARD)
TAG	ROOM SERVED	QTY	LOW-HIGH		C00	LING		HEATING	REFRIG	PIPE CC	ONNECTI	IONS (In.)	ELECTR	ICAL DAT	A	DIMENSIONS (L x W x H)	APPROX. WEIGHT	MODEL	MANUFACTERER	NOTES
				TMBH	EADB	EADB	EAWB	IMBH	ITPE	RS	RL	COND.	V - Ph - Hz	MCA	MOP	(In.)	(Lbs)			
AC-5	REFER TO PLANS	5	280 - 350	5	95	80	67	6	R-410A	1/2"	1/4"	1"	208 - 1 - 60	0.29	15	22-7/16 x 22-7/16 x 8-3/16	34	PLFY-P05NCMU-E	MITSUBISHI	SEE NOTES BELOW
AC-8	REFER TO PLANS	4	280 - 350	8	95	80	67	9	R-410A	1/2"	1/4"	1"	208 - 1 - 60	0.29	15	22-7/16 x 22-7/16 x 8-3/16	34	PLFY-P08NCMU-E	MITSUBISHI	SEE NOTES BELOW
AC-12	REFER TO PLANS	7	320 - 390	12	95	80	67	13.5	R-410A	1/2"	1/4"	1"	208 - 1 - 60	0.35	15	22-7/16 x 22-7/16 x 8-3/16	37	PLFY-P12NCMU-E	MITSUBISHI	SEE NOTES BELOW
AC-15	REFER TO PLANS	3	320 - 390	15	95	80	67	17	R-410A	1/2"	1/4"	1"	208 - 1 - 60	0.35	15	22-7/16 x 22-7/16 x 8-3/16	37	PLFY-P15NCMU-E	MITSUBISHI	SEE NOTES BELOW
AC-18	REFER TO PLANS	2	315 - 460	18	95	80	67	20	R-410A	1/2"	1/4"	1-1/4"	208 - 1 - 60	0.5	15	22-7/16 x 22-7/16 x 8-3/16	40	PLFY-P18NFMU-E	MITSUBISHI	SEE NOTES BELOW
AC-18	REFER TO PLANS	2	494 - 777	24	95	80	67	27	R-410A	3/8"	5/8"	1-1/4"	208 - 1 - 60	0.51	15	33-3/32 x 33-3/32 x 10-3/16	46	PLFY-P24NEMU-E	MITSUBISHI	SEE NOTES BELOW

NOTES:

1. ALL INDOOR UNITS CEILING CASSETTES SHALL BE PROVIDED A CONDENSATE LIFT PUMP FROM THE UNIT MANUFACTURER AND FIELD INSTALLED. EACH CEILING-MOUNTED CASSETTE UNIT SHALL HAVE VARIABLE SPEED DC MOTOR, 4-WAY AIRFLOW GRILLE.
 PROVIDE W/ WALL-MOUNTED REMOTE CONTROLLERS W/ OCCUPANCY SENSORS FOR AC UNITS IN ALL ROOMS.
 PROVIDE W/ PROPER REFRIGERANT CHARGE FOR ALL UNITS.

5. REFER TO DWG. FOR VRF SYSTEM & ASSOCIATED ACCUS. REFER TO SPEC. SECTION FOR ADDITIONAL INFORMATION. 6. INTERNAL AUTOMATIC TEMPERATURE CONTROLS SHALL BE PROVIDED BY ATC CONTRACTOR. THE ATC CONTRACTOR SHALL SHIP THE DDC CONTROLS FOR ALL UNITS TO THE UNIT MANUFACTURER FOR FACTORY MOUNTING. THE ATC CONTRACTOR SHALL PROVIDE, MOUNT AND WIRE ALL EXTERNAL COMPONENTS. ALL UNITS SHALL BE TIED INTO THE NEW BUILDING MANAGEMENT SYSTEM (BMS). REFER TO ATC DIAGRAMS AND SPECIFICATIONS.

		(	OUTDO	DR A	NR-C	COOL	_ED C	COI	NC	)El	NSING UN	IIT SC	HEDULE	Ξ	
															( <u>MITSUBISHI</u> AS STANDARD)
TAG	AG       LOCATION       AREAS SERVED       UNITS SERVED       UNITS SERVED       COOLING (TMBH)       AMBIENT TEMP (°F)       SUCTION TEMP (°F)       ELECTRICAL DATA V - Ph - Hz       MCA       MOP       EER       DIMENSIONS (L x W x H) (In.)       APPROX. WEIGHT (Lbs)       MODEL       MANUFACTERER       NOTES														
	(''''D''') (°F) (°F) (°F) (''F) (In.) (Lbs)														
VRF-W-1	Include     Include														
VRF-W-2	WEST ROOF	LEVEL 1 WEST	REFER TO PIPING DIAGRAMS	216	95	75	460 - 3 - 60	19	30	12.2	98-15/16 x 29-3/16 x 71-5/8	1306	PURY-P216YSNU-A	MITSUBISHI	SEE NOTES BELOW
VRF-E-1	EAST ROOF	LEVEL 1 EAST	REFER TO PIPING DIAGRAMS	240	95	75	460 - 3 - 60	19	30	11.7	98-15/16 x 29-3/16 x 71-5/8	1314	PURY-EP240YSNU-A	MITSUBISHI	SEE NOTES BELOW
VRF-E-2	EAST ROOF	LEVEL 1 EAST	REFER TO PIPING DIAGRAMS	240	95	75	460 - 3 - 60	19	30	11.7	98-15/16 x 29-3/16 x 71-5/8	1314	PURY-EP240YSNU-A	MITSUBISHI	SEE NOTES BELOW

NOTES: PROVIDE WITH LOW AMBIENT CONTROL TO 0°F, PATE EQUIPMENT ROOF SUPPORT, INTERLOCK WITH ASSOCIATED AC UNITS.

# ROOF MOUNTED STEAM GENERATOR AND DUCT MOUNTED HUMIDIFIER SCHEDULE

																					( <u>CONDAIR</u> AS STANDARD)
TAG	LOCATION	UNIT SERVED	CFM	EAT	EARH	LA RH	HUMIDIFIER		GAS	DATA	ELECTRIC	CAL DATA	1	1	DUCT	DISPERSION	DIMENSIONS	APPROX WEIGHT	MODEL	MANUFACTERER	REMARKS
				(°F)	(%)	(%)	(LB/HR)	INPUT (CFH)	VENT Ø (IN.)	MIN-MAX PRESSURE (IN.W.C.)	POWER (KW)	V / Ph / Hz	MCA	MOP	(LxW) (In.)	MODEL NO.	(LxWxH) (In.)	(Lbs)			
SG-A	COMMONS ROOF EAST	RTU-A	3,200	72	31.58	40	30		ELECTRIC	HUMIDIFIER	11.7	480 / 3 / 60	14.1	20	33 x 17	ASD-30	28.7 x 18.6 x 39.7	159	EL-30	CONDAIR	ELECTRIC STEAM GENERATOR, SEE NOTES BELOW.
SG-B	COMMONS ROOF EAST	RTU-B	2,000	72	21.65	40	30		ELECTRIC	HUMIDIFIER	11.7	480 / 3 / 60	14.1	20	16 x 18	ASD-30	28.7 x 18.6 x 39.7	159	EL-30	CONDAIR	ELECTRIC STEAM GENERATOR, SEE NOTES BELOW.
SG-C	COMMONS ROOF EAST	RTU-C	3,700	72	30.85	40	30		ELECTRIC	HUMIDIFIER	11.7	480 / 3 / 60	14.1	20	27 x 46	ASD-30	28.7 x 18.6 x 39.7	159	EL-30	CONDAIR	ELECTRIC STEAM GENERATOR, SEE NOTES BELOW.
SG-D	COMMONS ROOF WEST	RTU-D	5,700	72	34.52	40	30		ELECTRIC	HUMIDIFIER	11.7	480 / 3 / 60	14.1	20	27 x 46	ASD-30	28.7 x 18.6 x 39.7	159	EL-30	CONDAIR	ELECTRIC STEAM GENERATOR, SEE NOTES BELOW.
SG-E	COMMONS ROOF EAST	RTU-E	5,300	72	26.07	40	75		ELECTRIC	HUMIDIFIER	28.6	480 / 3 / 60	34.4	45	38 x 16	CSD-36	32.9 x 21.2 x 55.1	236	EL-75	CONDAIR	ELECTRIC STEAM GENERATOR, SEE NOTES BELOW.
SG-F	COMMONS ROOF EAST	RTU-F	1,000	72	31.77	40	10		ELECTRIC	HUMIDIFIER	4.2	480 / 3 / 60	8.8	15	19 x 32	ASD-18	28.7 x 18.6 x 39.7	132	EL-10	CONDAIR	ELECTRIC STEAM GENERATOR, SEE NOTES BELOW.
SG-G	COMMONS ROOF WEST	RTU-G	960	72	35.98	40	10		ELECTRIC	HUMIDIFIER	4.2	480 / 3 / 60	8.8	15	19 x 24	ASD-18	28.7 x 18.6 x 39.7	132	EL-10	CONDAIR	ELECTRIC STEAM GENERATOR, SEE NOTES BELOW.
SG-DE	COMMONS ROOF EAST	DOAS-E	3,600	72	3.13	40	100	140	3"	4.5-9		120 / 1 / 60			54"x24"	SAM-e 48"	49.7 x 21.5 x 54.3	556	GSTC-100	CONDAIR	GAS FIRED STEAM GENERATOR, SEE NOTES BELOW.
SG-DW	COMMONS ROOF WEST	DOAS-W	2,500	72	3.13	40	100	140	3"	4.5-9		120 / 1 / 60			54"x24"	SAM-e 48"	49.7 x 21.5 x 54.3	556	GSTC-100	CONDAIR	GAS FIRED STEAM GENERATOR, SEE NOTES BELOW.

NOTES: PROVIDE AIR PRESSURE SWITCH, DUCT MOUNTED ON/OFF HIGH LIMIT HUMIDSTAT, 2" COPPER STEAM PIPE WITH LONG RADIUS ELBOWS AND MIN. 2" MINERAL FIBER INSULATION WITH FACTORY APPLIED ASJ, WALL MOUNTED MODULATING HUMIDITY CONTROLLER WITH ELECTRONIC DISPLAY AND ADJUSTABLE BUTTONS, ADJUSTABLE RANGE FROM 10-90% RH, SELECTABLE OUTPUT SIGNALS, 2%-10% PROPORTIONAL BAND AND DRY CONTACT OUTPUT, MULTISTEAM, INTERNAL DRAIN COOLER, DUCT MOUNTED HUMIDITY SENSOR AND BACnet INTERFACE TO NEW BUILDING MANAGEMENT SYSTEM.

	ELECTRIC AIR CURTAIN SCHEDULE											
TAG	LOCATION	TYPE	ELECTR		DIMENSIONS (LxWxH) (ln.)	APPROX WEIGHT	MODEL	MANUFACTERER	NOTES			
			TOTAL HP	V / Ph / HZ		(103)						
ECR-1	LOBBY 101	CEILING HUNG	1/8	120 / 1 / 60	48 x 7 x 8-7/8	75	LP48001108	MARLEY	SEE NOTES BELOW			
ECR-2	VESTIBULE 100	CEILING HUNG	1/8	120 / 1 / 60	48 x 7 x 8-7/8	75	LP48001108	MARLEY	SEE NOTES BELOW			
NOTES	: CEILING HUNG AIF	R CURTAIN. PROVIE	DE HANGING	SUPPORTS, DIS	CONNECT SWITCH, I		E LINE BREAK	THERMOSTAT W/	OFF OPTION. COORDINATE WITH G.C.			

	ARCHITECT HCM Design, Inc. 700 E. Pratt St, Suite 1200, Baltimore, MD 21202
	p. 410. 837. 7311 STRUCTURAL ENGINEER Morabito Consultants 952 Ridgebrook Road, suite 1700, Sparks MD 21152
	p. 410.467.2377 FOOD SERVICE Scopos Hospitality Group 300 West Chestnut Street, Suite 201, Enbrata, PA 1
	INTERIOR DESIGNER Merlino Design Partnership, Inc.
1	2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 1 p. 610.313.9550 MEPFP ENGINEER LAN Associates
	Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400
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	PLANNING INTERIOR DESIGN
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6	090385
	POFESSIONAL
	LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP LAN JOB #1308.01 PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK. LICENSE NUMBER: 090385
	UNDER THE LAWS OF THE STATE OF NEW YORK. LICENSE NUMBER: 10/31/23
	Understand       090385         Understand       090385         Understand       090385         Understand       090385         Engineering, Planning, Architecture, Surveying, LLP         LAN JOB #1308.01         PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE         PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER         UNDER THE LAWS OF THE STATE OF NEW YORK.         LICENSE NUMBER: 090385         EXPIRATION DATE: 10/31/23
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8	LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP LAN JOB #1308.01 PROPAREO RAPPROVED BY ME, AND THAT I HESE DOCUMENTS WERE PROPAREO RAPPROVED BY ME, AND THAT I HESE DOCUMENTS WERE PROPAREO RAPPROVED BY ME, AND THAT I HESE DOCUMENTS WERE PROPAREO RAPPROVED BY ME, AND THAT I MA DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK. LICENSE NUMBER: 003123 EXPIRATION DATE: 10/31/23 EXPIRATION DATE: 10/31/23 Inc. date revision Project Name BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number 1308.01 Date 4/30/2021 Scale 1/8" = 1'-0" Drawing MECHANICAL SCHEDULES
8	LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP IAN JOB #1308.01 PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PROPARED OR APPROVED BY ME, AND THAT I MA DULY LICENSED ENGINEER UNDER HEAVS OF THE STATE OF NEW YORK. LICENSE NUMBER: 09338 EXPIRATION DATE: 1031/23

			0054																					
FAN		ION - JOB#486	2854				MC	DTOR			_	DISCHARGE	WEIGHT											
NO TAG	G QIY	FAN UNIT	MODEL #	MANUFACTURER	CFM	ESP	RPM EN	NCL	HP BHP	PHASE VOL	I FLA	VELOCITY	(LBS)	SONES										
1 KX-1 (K11	14) 1	DU	180HFA	CAPTIVEAIRE	3033	1.750	1380 EXPLOSIO	ONPROOF	3.000 1.8490	3 460	3.8	700 FPM	225	20										
2 KX-2A (K14	141) 1	DU	300HFA	CAPTIVEAIRE	7150	1.600	785 TEFC,P	REMIUM	5.000 3.4370	3 460	7.6	1114 FPM	646	17.2										
3 KX-2B (K15	57.1) 1	DU	85HFA	CAPTIVEAIRE	1050	1.150	1271 TEAC		0.750 0.3680	1 115	8.9	332 FPM	86	11										
4 KX-3 (K19	91) 1	DU	180HFA	CAPTIVEAIRE	1983	1.750	1260 ODP,PI		3.000 1.2690	3 460	4.3	458 FPM	186	16.4										
5 KX-4 (P13	$\frac{1}{2}$	DU	180HFA	CAPTIVEAIRE	1700	1.400	1123 ODP,PI	REMIUM	1.500 0.8830	3 460	3.0	393 FPM	179	13.6										
FAN	DETAILS			CONDENSER							MAX FUSE	MIN WIRF												
UNIT NO	TAG	FAN UN	IT MODEL #	NO	TONNAGE	VOLTAGE	PHASE F	REQUENCY	MCA	RLA	SIZE	SIZE	SEER											
6 KMUA	A-1 (K114)	A2-D.5	)0-20D-MPU	1	5	460	3 PHASE 3 PHASE	60 HZ 60 HZ	10.5 AMPS 10.5 AMPS	8.5 AMPS 8.5 AMPS	15 AMPS 15 AMPS	14 AWG 14 AWG	14											
7 KMUA-2 (I	(K141/157.1)	A4-D.15		2	5	460	3 PHASE	60 HZ	10.5 AMPS	8.5 AMPS	15 AMPS	14 AWG	14											
		A1-D.5	00-15D-MPU	1	3	460	3 PHASE	60 HZ	7.7 AMPS	6.3 AMPS	15 AMPS	14 AWG	14											
		JOD#40020J4				_ MIN	DESIGN		MOTOR					WEIGHT	50									
NO	IAG	QTY FA	N UNIT MODEL #	BLOWER	HOUSIN	G CFM	CFM		ENCL	HP BH	P PHASE V			(LBS)	E5									
6 KMUA-1	1 (K114)	1 A2	-D.500-20D-MPU	20MF-2-MOE	D A2-D.500	2000	2426 1.25	50 1380	ODP,PREMIUN	1 3.000 1.38	90 3	460 4.3 5.4	A 15A	1262 12.9	9									
7 KMUA-2 (K1	(141/157.1)	1 A4	D.1500-30D-MPU	30MF-4-MOE	D A4-D.150	0 6000	6560 1.50	00 1037	ODP,PREMIUN	1 5.000 3.41	60 3	460 7.2 94	A 15A	2410 16.4	4									
9 KMUA-4	4 (P134)	1 A <sup>-</sup>	-D.500-15D-MPU	15MF-1-MOI	D A1-D.500	) 1100	1360 1.00	00 1935	ODP,PREMIUN	1 3.000 1.07	60 3	460 3.9 4.9	A 15A	1026 19.1	1									
COILS - JOB#48	862854														]									
FAN								CC	OOLING											HEATING				
UNIT	TAG	COIL DESIG		ENTERING WB	FAVING DB				AVING FI		PERCENT	ΤΟΤΑΙ	SENSIBI	F LATEN			AVING DB		I FAVING F	I UID FLOW	PERCENT	STFAM	ΤΟΤΑΙ	SENSIBI
			TEMP	TEMP	TEMP	TEMP	P FLUID TEN	MP FLUI	ID TEMP	RATE	GLYCOL	CAPACITY	CAPACI	Y CAPAC	ITY TY	TEMP	TEMP FI	UID TEMP FI		RATE	GLYCOL	PRESSURE	CAPACIT	Y CAPACIT
6 KMUA 7 KMUA-2 (	A-1 (K114) (K141/157.1)	DX 2426	87.0°F	72.0°F 72.0°F	75.0°F 76.6°F	66.7°F						45.2 MBH 98.1 MBH	30.6 MB 71.5 MB	H 14.6 ME H 26.6 ME	BH BH									
9 KMUA	A-4 (P134)	DX 1360	87.0°F	72.0°F	74.1°F	66.4°F						26.7 MBH	18.4 MB	H 8.3 MB	3H									
GAS FIRED MA	KE-UP AIR	UNIT(S)																						
	TAG	INPUT OU BTUs E	JTPUT STUS	E REQUIRED	D INPUT GAS ESSURE	G	AS TYPE BI	URNER IENCY(%)																
6 KMUA	A-1 (K114)	220491 20	2852 80°F	7 IN. W.C 1	14 IN. W.C.	N	IATURAL	92																
7 KMUA-2 (	(K141/157.1)	596218 54	8521 80°F	7 IN. W.C 1	14 IN. W.C.	N	IATURAL	92																
9 KMUA	A-4 (P134)	123607 1	13718 80°F	7 IN. W.C 1	14 IN. W.C.	N	IATURAL	92																
DOAS/RTU FAN	N SCHEDUL	.E - JOB#48628	54																					
FAN UNIT TAG	G QTY	DOAS/RTU	J MODEL #	MANUFACTURER	BLOWER A		MAX TSIDE CFM	ESP	HP BHP F	PHASE VOLT	MCA MOC	P WEIGHT												
NU 8 KMUA-3 (K1	(101) 1	CASRTI 12-1 250.										(LDS)												
			15-10T-DOAS		15P_2	0 1		1 000	2 000 1 3460	3 /60	28.1.4 30.4	(LBS)												
10 DOAS-I			15-10T-DOAS	CAPTIVEAIRE	15P-2	0 1	990 1990	1.000	2.000 1.3460	3 460	28.1A 30A	(LBS) 1897												
DOAS/RTU CO	-К 1	CASRTU4-I.600-	15-10T-DOAS 30-30T-DOAS	CAPTIVEAIRE	15P-2 30P-4	0 1 0 5	990     1990       250     5250	1.000 2.000	2.000       1.3460         10.000       5.2120	3     460       3     460	28.1A 30A 81.6A 90A	(LBS) 1897 4877												
	-K 1 OLING SCH	CASRTU4-I.600-	15-10T-DOAS 30-30T-DOAS	CAPTIVEAIRE	15P-2 30P-4	0 1 0 5	990     1990       250     5250	1.000 2.000	2.000 1.3460 10.000 5.2120	3     460       3     460	28.1A 30A 81.6A 90A	(LBS) 1897 4877												
FAN	-K 1 OOLING SCH	CASRTU4-I.600- EDULE COMPRESSOF	15-10T-DOAS 30-30T-DOAS	CAPTIVEAIRE	15P-2 30P-4	0 1	990 1990 250 5250 INDOC	1.000 2.000	2.000 1.3460 10.000 5.2120 OUTSIDE	3 460 3 460 OUTSIDE	28.1A 30A 81.6A 90A	(LBS) 1897 4877 MIXED AIR		I FAVING	I FAVING	ΤΟΤΑΙ	SENSIBI E	LATENT	REHEAT	REHEAT	DESIRED	MAX	REHEAT	MOISTURE
FAN UNIT TAG	-K 1 OOLING SCH	CASRTU4-I.600- EDULE COMPRESSOF	15-10T-DOAS 30-30T-DOAS		15P-2 30P-4 DOR FAN MOTOR	0 1 0 5	990 1990 250 5250 INDOC	1.000 2.000 OR COIL	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP	3 460 3 460 OUTSIDE AIR WB TEMP	28.1A 30A 81.6A 90A MIXED AIR DB TEMP	MIXED AIR WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	LEAVING DP TEMP	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	REHEAT LEAVING DB TEMP	REHEAT LEAVING WB TEMP	DESIRED REHEAT CAPACITY	MAX REHEAT CAPACITY	REHEAT LEAVING RELATIVE HUMIDITY	MOISTURE REMOVAL RATE
FAN UNIT TAG NO	-K 1 OOLING SCH	CASRTU4-I.600- EDULE COMPRESSOF	15-10T-DOAS 30-30T-DOAS	CAPTIVEAIRE CAPTIVEAIRE OUTDO	15P-2 30P-4 DOR FAN MOTOR FREQUENC	0 1 0 5 Y MOTOR Q	990 1990 250 5250 INDOC	1.000 2.000 DR COIL FACE ARE	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP	3 460 3 460 OUTSIDE AIR WB TEMP	28.1A 30A 81.6A 90A MIXED AIR DB TEMP	MIXED AIR WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	LEAVING DP TEMP	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	REHEAT LEAVING DB TEMP	REHEAT LEAVING WB TEMP	DESIRED REHEAT CAPACITY	MAX REHEAT CAPACITY	REHEAT LEAVING RELATIVE HUMIDITY	MOISTURE REMOVAL RATE
FAN UNIT NO 8 KMUA-3 (K1	-K 1 OOLING SCH 5 TONNA (191) 10	CASRTU4-I.600- EDULE COMPRESSOF AGE VOLTAGE 380-480	15-10T-DOAS 30-30T-DOAS R PHASE MO VOLT 3 380-4	CAPTIVEAIRE CAPTIVEAIRE OUTDO TOR AGE MOTOR	15P-2 30P-4 DOR FAN MOTOR FREQUENC 60	0 1 0 5 Y MOTOR Q 2	990 1990 250 5250 INDOC TY ROWS 5	1.000 2.000 2.000 CR COIL FACE ARE 11.9 SQF	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F	3 460 3 460 OUTSIDE AIR WB TEMP 75.2°F	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F	MIXED AIR WB TEMP	LEAVING DB TEMP 53.2°F	LEAVING WB TEMP 53.1°F	LEAVING DP TEMP 53.1°F	TOTAL CAPACITY 144.0 MBH	SENSIBLE CAPACITY 56.6 MBH	LATENT CAPACITY 87.4 MBH	REHEAT LEAVING DB TEMP 70.0°F	REHEAT LEAVING WB TEMP 59.7°F	DESIRED REHEAT CAPACITY 37.2 MBH	MAX REHEAT CAPACITY 96 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55	MOISTURE REMOVAL RATE 78.9 LBS/HR
FAN UNIT NO 8 KMUA-3 (K1 10 DOAS-I	-K 1 OOLING SCH TONNA (191) 10 -K 30	CASRTU4-I.600- EDULE COMPRESSOF AGE VOLTAGE 380-480 380-480	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4	CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO TOR AGE MOTOR 480 3	15P-2 30P-4 OOR FAN MOTOR FREQUENC 60	0 1 0 5 Y MOTOR Q 2 3	990 1990 250 5250 INDOC TY ROWS 5 6	1.000 2.000 2.000 CR COIL FACE ARE 11.9 SQF <sup>-</sup> 25.3 SQFT	2.000 1.3460 10.000 5.2120 	3       460         3       460         OUTSIDE         AIR         WB TEMP         75.2°F         75.2°F	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F	(LBS) 1897 4877 MIXED AIR WB TEMP 75.2°F 75.2°F	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F	LEAVING DP TEMP 53.1°F 51.6°F	TOTAL CAPACITY 144.0 MBH 384.0 MBH	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH	LATENT CAPACITY 87.4 MBH 241.9 MBH	REHEAT LEAVING DB TEMP 70.0°F 70.0°F	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NO 8 KMUA-3 (K1 10 DOAS-1 DOAS/RTU HEA	-К 1 OOLING SCH TONNA (191) 10 -К 30 ATING SCH	CASRTU4-I.600- EDULE COMPRESSOF AGE VOLTAGE 380-480 EDULE	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4	CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO AGE MOTOR 480 3 480 3	15P-230P-4OOR FANMOTOR FREQUENC6060	0 1 0 5 Y MOTOR Q 2 3	990 1990 250 5250 INDOC TY ROWS 5 6	1.000         2.000         2.000         R COIL         FACE ARE         11.9 SQF <sup>-1</sup> 25.3 SQFT	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F CURB AS	3 460 3 460 OUTSIDE AIR WB TEMP 75.2°F 75.2°F SEMBLIES	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F	(LBS) 1897 4877 MIXED AIR WB TEMP 75.2°F 75.2°F	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F	LEAVING DP TEMP 53.1°F 51.6°F	TOTAL CAPACITY 144.0 MBH 384.0 MBH	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH	LATENT CAPACITY 87.4 MBH 241.9 MBH	REHEAT LEAVING DB TEMP 70.0°F 70.0°F	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNITTAG	-К 1 OOLING SCH TONNA (191) 10 -К 30 ATING SCH	CASRTU4-I.600- EDULE COMPRESSOF AGE VOLTAGE 380-480 EDULE OUTPUT ETUS	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 RISE REQUIRED I	CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO TOR AGE MOTOR 480 3 480 3	15P-2         30P-4         OOR FAN         MOTOR         FREQUENC         60         60         60         60         60         60	0 1 0 5 MOTOR Q 2 3	990 1990 250 5250 INDOC TY ROWS 5 6 BURNER	1.000         2.000         2.000         R COIL         FACE ARE         11.9 SQF <sup>-</sup> 25.3 SQFT	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F CURB AS NO ON	3 460 3 460 OUTSIDE AIR WB TEMP 75.2°F 75.2°F SEMBLIES	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F	<ul> <li>(LBS)</li> <li>1897</li> <li>4877</li> <li>4877</li> <li>MIXED AIR WB TEMP</li> <li>75.2°F</li> <li>75.2°F</li> <li>WEIGHT</li> </ul>	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM	LEAVING DP TEMP 53.1°F 51.6°F	TOTAL CAPACITY 144.0 MBH 384.0 MBH	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH	LATENT CAPACITY 87.4 MBH 241.9 MBH	REHEAT LEAVING DB TEMP 70.0°F 70.0°F	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNIT NO	-К 1 OOLING SCH TONNA (191) 10 -К 30 ATING SCH S INPUT BTUS	CASRTU4-I.600- EDULE COMPRESSOF AGE VOLTAGE 380-480 EDULE OUTPUT BTUS TEMP	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 RISE REQUIRED I	CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO TOR AGE MOTOR 480 3 480 3 NPUT GAS PRESSURI	15P-2         30P-4         30P-4         OOR FAN         MOTOR         FREQUENC         60         60         60         60         60         60	0 1 0 5 MOTOR Q 2 3 TYPE EFFI	990       1990         250       5250         INDOC         TY       ROWS         5         6         BURNER         CIENCY(%)	1.000         2.000         2.000         R COIL         FACE ARE         11.9 SQF <sup>-</sup> 25.3 SQFT	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F CURB AS NO ON FAN 1 # 1	3 460 3 460 3 460 OUTSIDE AIR WB TEMP 75.2°F 75.2°F SEMBLIES KX-1	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F	(LBS) 1897 4877 MIXED AIR WB TEMP 75.2°F 75.2°F VEIGHT WEIGHT 41 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2	TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH	LATENT CAPACITY 87.4 MBH 241.9 MBH SIZE TH, RIGHT VENTI	REHEAT LEAVING DB TEMP70.0°F70.0°F70.0°F	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNIT NO8KMUA-3 (K1)	-K 1 OOLING SCH TONNA (191) 10 -K 30 ATING SCH S INPUT BTUS (191) 244194	CASRTU4-I.600- EDULE COMPRESSOF AGE VOLTAGE 380-480 EDULE OUTPUT BTUS 195355 80°	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 RISE REQUIRED I F 7 IN. W	CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO AGE MOTOR 480 3 480 3 NPUT GAS PRESSURI	15P-2         30P-4         30P-4         OOR FAN         MOTOR         FREQUENC         60         60         60         60         Antion         Antion         NATION	0 1 0 5 MOTOR Q 2 3 TYPE EFFI	990       1990         250       5250         INDOC         TY       ROWS         5         6         BURNER         CIENCY(%)         80	1.000         2.000         2.000         R COIL         FACE ARE         11.9 SQF <sup>-</sup> 25.3 SQFT	2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F CURB AS NO ON FAN 1 # 1 2 # 2	3       460         3       460         3       460         OUTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-1       KX-24	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT WEIGHT 41 LBS 58 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2	TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.0 38.500"L X 20.0	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH	LATENT CAPACITY 87.4 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI	REHEAT LEAVING DB TEMP70.0°F70.0°FTO.0°FHINGED.ED HINGED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNIT NO8KMUA-3 (K1)10DOAS-1	-К 1 OOLING SCH TONNA (191) 10 -К 30 ATING SCH S INPUT BTUS (191) 244194 -К 595912	CASRTU4-I.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480       380-480         EDULE         OUTPUT       TEMP         195355       80°         476730       74°	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 RISE REQUIRED I F 7 IN. W	CAPTIVEAIRE CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO NOTOR 480 3 480 3 NPUT GAS PRESSURI C 14 IN. W.C.	15P-2         30P-4         30P-4         OOR FAN         MOTOR         FREQUENC         60         60         60         60         60         Antion         NATION         NATION	0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL	990       1990         250       5250         INDOC         TY       ROWS         5         6         BURNER         CIENCY(%)         80         80	1.000         2.000         2.000         FACE ARE         11.9 SQF <sup>-</sup> 25.3 SQFT	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F CURB AS NO ON FAN 1 # 1 2 # 2 3 # 3 4 # 4	3       460         3       460         3       460         OUTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-1       KX-24         KX-28       KX-3	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K141) (K157.1) (K191)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 38.500"W X 23.000"W X	TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.0 38.500"L X 20.0 23.000"L X 20.0 26.500"L X 20.0	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F ED HINGED. ED HINGED. ED HINGED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNIT NO8KMUA-3 (K1)10DOAS-1	-К 1 OOLING SCH TONNA (191) 10 -К 30 ATING SCH S INPUT BTUS (191) 244194 -К 595912	CASRTU4-I.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480       380-480         EDULE         OUTPUT       TEMP         195355       80°         476730       74°	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 RISE REQUIRED I F 7 IN. W F 7 IN. W	CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO AGE MOTOR 480 3 480 3 480 3 NPUT GAS PRESSURI C 14 IN. W.C. C 14 IN. W.C.	15P-2         30P-4         30P-4         MOTOR         RE         60 <td>0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL</td> <td>990       1990         250       5250         INDOC         TY       ROWS         5         6         BURNER         CIENCY(%)         80         80         HEAT PUMP</td> <td>1.000 2.000 CR COIL FACE ARE 11.9 SQF 25.3 SQFT</td> <td>2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F <math>CURB AS NO ON FAN 1 #1 2 #2 3 #3 4 #4 5 #5</math></td> <td>3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-1       KX-24         KX-28       KX-3         KX-4       KX-4</td> <td>28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K141) (K157.1) (K191) (K191) (P134)</td> <td>(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 41 LBS</td> <td>LEAVING DB TEMP 53.2°F 54.5°F</td> <td>LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB</td> <td>LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 38.500"W X 23.000"W X 26.500"W X</td> <td>TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.0 38.500"L X 20.0 23.000"L X 20.0 26.500"L X 20.0</td> <td>SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG</td> <td>LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI</td> <td>REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F ED HINGED. ED HINGED. ED HINGED. ED HINGED.</td> <td>REHEAT LEAVING WB TEMP 59.7°F 58.9°F</td> <td>DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH</td> <td>MAX REHEAT CAPACITY 96 MBH 260 MBH</td> <td>REHEAT LEAVING RELATIVE HUMIDITY 55 52</td> <td>MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR</td>	0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL	990       1990         250       5250         INDOC         TY       ROWS         5         6         BURNER         CIENCY(%)         80         80         HEAT PUMP	1.000 2.000 CR COIL FACE ARE 11.9 SQF 25.3 SQFT	2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F $CURB ASNO ONFAN1 #12 #23 #34 #45 #5$	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-1       KX-24         KX-28       KX-3         KX-4       KX-4	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K141) (K157.1) (K191) (K191) (P134)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 41 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 38.500"W X 23.000"W X 26.500"W X	TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.0 38.500"L X 20.0 23.000"L X 20.0 26.500"L X 20.0	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F ED HINGED. ED HINGED. ED HINGED. ED HINGED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNIT NO8KMUA-3 (K1)10DOAS-18KMUA-3 (K1)10DOAS-1FAN UNIT NOTAG	-К 1 OOLING SCH TONNA 191) 10 -К 30 ATING SCH 30 ATING SCH 3191) 244194 -К 595912 3	CASRTU4-I.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480       380-480         EDULE         OUTPUT       TEMP         195355       80°         476730       74°         DOAS/RTU MODEI	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 3 380-4 1 RISE REQUIRED I F 7 IN. W F 7 IN. W	CAPTIVEAIRE CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO OUTDO AGE MOTOR 480 3 480 3 480 3 480 3 480 3 480 3 480 3	15P-2         30P-4         30P-4         OOR FAN         MOTOR FREQUENC         60	0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL JRAL JRAL AL	990       1990         250       5250         INDOC         TY       ROWS         TY       6         BURNER         CIENCY(%)         80         BURNER         HEAT PUMP         DISCHARGE DB         TEMP	1.000         2.000         2.000         FACE ARE         11.9 SQF <sup>-1</sup> 25.3 SQFT	2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F $CURB ASNO ONFAN1 #12 #23 #34 #45 #56 #6#6$	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-1       KX-24         KX-28       KX-3         KX-4       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K157.1) (K191) (K191) (P134) -1 (K114)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 41 LBS 107 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 38.500"W X 23.000"W X 26.500"W X 26.500"W X 31.000"W X	TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.0 38.500"L X 20.0 23.000"L X 20.0 26.500"L X 20.0 26.500"L X 20.0 26.500"L X 20.0	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT VENTI	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F ED HINGED. ED HINGED. ED HINGED. ED HINGED. ED HINGED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNIT NO8KMUA-3 (K1)10DOAS-1FAN UNIT NO10DOAS-1FAN UNIT NO8KMUA-3 (K1)FAN UNIT NO8KMUA-3 (K1)	-К 1 OOLING SCH TONNA 191) 10 -К 30 ATING SCH 30 ATING SCH	CASRTU4-I.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480         380-480         OUTPUT         DULE         195355         80°         476730         COAS/RTU MODEI         RTU2-I.250-15-10T-	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 3 380-4 1 RISE REQUIRED I F 7 IN. W F 7 IN. W F 7 IN. W	CAPTIVEAIRE CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO OUTDO MOTOR 480 3 480 4 480 4	15P-2         30P-4         30P-4         MOTOR         FREQUENC         60 <td< td=""><td>0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL JRAL JRAL 3 0.0°F</td><td>990       1990         250       5250         INDOC         TY       ROWS         TY       6         BURNER         CIENCY(%)         80         HEAT PUMP         DISCHARGE DB         TEMP         80.0°F</td><td>1.000         2.000         2.000         FACE ARE         11.9 SQF<sup>-1</sup>         25.3 SQFT         COP         3.2</td><td>2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ONFAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7</td><td>3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-1       KX-24         KX-28       KX-3         KX-3       KX-4         KMUA-2 (F</td><td>28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K157.1) (K191) (K157.1) (K191) (P134) -1 (K114)</td><td>(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 107 LBS 107 LBS</td><td>LEAVING DB TEMP 53.2°F 54.5°F</td><td>LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB</td><td>LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 28.500"W X 23.000"W X 26.500"W X 31.000"W X 31.000"W X</td><td>TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.0 38.500"L X 20.0 23.000"L X 20.0 26.500"L X 20.0</td><td>SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG</td><td>LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT VENTI H, RIGHT INSULA</td><td>REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED.</td><td>REHEAT LEAVING WB TEMP 59.7°F 58.9°F</td><td>DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH</td><td>MAX REHEAT CAPACITY 96 MBH 260 MBH</td><td>REHEAT LEAVING RELATIVE HUMIDITY 55 52</td><td>MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR</td></td<>	0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL JRAL JRAL 3 0.0°F	990       1990         250       5250         INDOC         TY       ROWS         TY       6         BURNER         CIENCY(%)         80         HEAT PUMP         DISCHARGE DB         TEMP         80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF <sup>-1</sup> 25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ONFAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-1       KX-24         KX-28       KX-3         KX-3       KX-4         KMUA-2 (F	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K157.1) (K191) (K157.1) (K191) (P134) -1 (K114)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 107 LBS 107 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 28.500"W X 23.000"W X 26.500"W X 31.000"W X 31.000"W X	TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.0 38.500"L X 20.0 23.000"L X 20.0 26.500"L X 20.0	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT VENTI H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNIT NO8KMUA-3 (K1)10DOAS-1FAN UNIT NO8KMUA-3 (K1)FAN UNIT NO8KMUA-3 (K1)FAN NOTAG8KMUA-3 (K1)FAN ATAG8KMUA-3 (K1)	-К 1 OOLING SCH TONNA TONNA 191) 10 -К 30 ATING SCH 30 ATING SCH 30 ATING SCH 30 ATING SCH 595912 595912 50 595912 CAS	CASRTU4-I.600- EDULE COMPRESSOF AGE VOLTAGE 380-480 EDULE OUTPUT BTUS TEMP 195355 80° 476730 74° DOAS/RTU MODEI RTU2-I.250-15-10T-	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 3 380-4 RISE REQUIRED I F 7 IN. W F 7 IN. W F 7 IN. W	CAPTIVEAIRE CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO OUTDO AGE MOTOR 480 3 480 3 48	15P-2         30P-4         30P-4         MOTOR         FREQUENC         60         61         62         63         64         70         70         70         70         70         70         70         70         70 <td< td=""><td>0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL JRAL JRAL 3 30.0°F</td><td>990       1990         250       5250         INDOC         TY       ROWS         TY       6         BURNER         CIENCY(%)         80         HEAT PUMP         DISCHARGE DB         TEMP         80.0°F</td><td>1.000         2.000         2.000         FACE ARE         11.9 SQF<sup>-1</sup>         25.3 SQFT         COP         3.2</td><td>2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ONFAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 47</td><td>3       460         3       460         3       460         OUTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-24       KX-24         KX-24       KX-24         KX-3       KX-4         KMUA-2 (H</td><td>28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K114) (K157.1) (K191) (P134) -1 (K114)</td><td>(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 107 LBS 107 LBS</td><td>LEAVING DB TEMP 53.2°F 54.5°F</td><td>LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB</td><td>LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 28.500"W X 23.000"W X 26.500"W X 26.500"W X 31.000"W X 31.</td><td>TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 1.000"L X 20.00 42.000"L X 20.00 2.000"L X 20.00</td><td>SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG</td><td>LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA</td><td>REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED.</td><td>REHEAT LEAVING WB TEMP 59.7°F 58.9°F</td><td>DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH</td><td>MAX REHEAT CAPACITY 96 MBH 260 MBH</td><td>REHEAT LEAVING RELATIVE HUMIDITY 55 52</td><td>MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR</td></td<>	0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL JRAL JRAL 3 30.0°F	990       1990         250       5250         INDOC         TY       ROWS         TY       6         BURNER         CIENCY(%)         80         HEAT PUMP         DISCHARGE DB         TEMP         80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF <sup>-1</sup> 25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ONFAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 47	3       460         3       460         3       460         OUTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-24       KX-24         KX-24       KX-24         KX-3       KX-4         KMUA-2 (H	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K114) (K157.1) (K191) (P134) -1 (K114)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 107 LBS 107 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 28.500"W X 23.000"W X 26.500"W X 26.500"W X 31.000"W X 31.	TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 1.000"L X 20.00 42.000"L X 20.00 2.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NO       TAG         8       KMUA-3 (K1)         10       DOAS-I         DOAS/RTU HEA         FAN UNIT NO         8       KMUA-3 (K1)         10       DOAS-I         FAN UNIT NO       TAG         8       KMUA-3 (K1)         10       DOAS-I         FAN UNIT NO       TAG         8       KMUA-3 (K1)         8       KMUA-3 (K1)         8       KMUA-3 (K1)         8       KMUA-3 (K1)         A       ACCESSO         FAN       KMUA-3 (K1)	-К 1 OOLING SCH TONNA 191) 10 -К 30 ATING SCH 30 ATING SCH	CASRTU4-I.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480         380-480         OUTPUT         BTUS         195355         476730         74°         DOAS/RTU MODEI         RTU2-I.250-15-10T-         EXHAU	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 3 380-4 3 380-4 1 RISE REQUIRED I F 7 IN. W F 7 IN. W F 7 IN. W	CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO OUTDO AGE MOTOR 480 3 480 3 48	15P-2         30P-4         30P-4         NOTOR         MOTOR         FREQUENC         60         60         60         60         60         8         GAS         NATE         NATE         NATE         NATE         OFF	0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL JRAL 3 30.0°F	990       1990         250       5250         INDOC         TY       ROWS         TY       ROWS         5       6         BURNER CIENCY(%)       6         80       80         HEAT PUMP DISCHARGE DB TEMP         80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ON FAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-24       KX-24         KX-3       KX-4         KX-4       KMUA         KMUA-2 (H       KMUA         KMUA-2 (H       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K114) (K157.1) (K191) (P134) -1 (K114) (X141/157.1)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 58 LBS 107 LBS 128 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 38.500"W X 23.000"W X 26.500"W X 26.500"W X 26.500"W X 31.000"W X 31.000"W X 42.000"W X 42.000"W X 42.000"W X 42.000"W X 42.000"W X 42.000"W X 40.500"W X 40.500"W X 40.500"W X 40.500"W X 40.500	TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 20.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 75.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H RIGHT.	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-IDOAS/RTU HEAFAN UNIT NO8KMUA-3 (K1)10DOAS-I8KMUA-3 (K1)10DOAS-IFAN UNIT NOTAG8KMUA-3 (K1)8KMUA-3 (K1)8KMUA-3 (K1)8KMUA-3 (K1)8KMUA-3 (K1)10R8KMUA-3 (K1)10NO	-К 1 OOLING SCH TONNA 191) 10 -К 30 ATING SCH 30 ATING	CASRTU4-I.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480       380-480         EDULE         OUTPUT       TEMP         195355       80°         476730       74°         DOAS/RTU MODEI         RTU2-I.250-15-10T-         EXHAU         GREASE	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 380-4 3 380-4 3 380-4 1 3 380-4 3 380-4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CAPTIVEAIRE CAPTIVEAIRE OUTDO OUTDO TOR MOTOR 480 3 480 3 48	15P-2         30P-4         30P-4         OOR FAN         MOTOR         60         60         60         60         60         8         GAS         NATI         NATI         NATI         O'F         Y	0 1 0 5 MOTOR Q 2 3 TYPE EFFI JRAL JRAL JRAL 3 30.0°F 3	990       1990         250       5250         INDOC         TY       ROWS         TY       ROWS         6         BURNER         CIENCY(%)         80         80         80         80         80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ON FAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 #9	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-24       KX-24         KX-3       KX-4         KX-4       KMUA         KMUA-2 (F       KMUA         KMUA-2 (F       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K157.1) (K157.1) (K191) (P134) -1 (K114) (K141/157.1)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 58 LBS 107 LBS 41 LBS 107 LBS 85 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 38.500"W X 2 26.500"W X 2 21.000"W X 2	TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 75.000"L X 20.00 71.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H RIGHT. 00"H ALONG WIDT 0"HRIGHT.	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT VENTI H, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED. 10 HINGED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 218.4 LBS/HR
FAN UNIT NOTAG8KMUA-3 (K1)10DOAS-1DOAS/RTU HEAFAN UNIT NO8KMUA-3 (K1)10DOAS-1FAN UNIT NO8KMUA-3 (K1)FAN UNIT NOTAG8KMUA-3 (K1)FAN UNIT NOFAN UNIT NO	-К 1 OOLING SCH TONNA 191) 10 -К 30 ATING SCH 30 ATING SCH 30 30 ATING SCH 30 ATING	CASRTU4-1.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480         380-480         OUTPUT         BTUS         195355         476730         74°         DOAS/RTU MODEI         RTU2-1.250-15-10T-1         GREASE       GRAV         GREASE       GRAV         DAMI	15-10T-DOAS 30-30T-DOAS  PHASE MO VOLT 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CAPTIVEAIRE         CAPTIVEAIRE         CAPTIVEAIRE         OUTDO         TOR         MOTOR         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         480         480         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         100	15P-2         30P-4         30P-4         MOTOR         MOTOR         60         61         62         63         64         7         7         7         7         7         7         7         7         7         7	0       1         0       5         0       5         Y       MOTOR Q         Q       2         Q       2         Q       3         TYPE       EFFI         JRAL       JRAL         JRAL       30.0°F         WALL       WALL         WALL       MOUNT	990       1990         250       5250         INDOC         TY       ROWS         TY       ROWS         5       6         BURNER CIENCY(%)       6         80       80         HEAT PUMP DISCHARGE DB TEMP         80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ON FAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-24       KX-24         KX-3       KX-4         KX-4       KMUA         KMUA-2 (F       KMUA         KMUA-2 (F       KMUA         KMUA-2 (F       KMUA         KMUA       KMUA         KMUA       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K157.1) (K157.1) (K191) (F134) -1 (K114) (K141/157.1) (P134) -3 (K191) 4 (P134) -3 (K191) 4 (P134)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 58 LBS 107 LBS 107 LBS 85 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 26.500"W X 2 21.000"W X 4 6.000"W X 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 21.000"L X 20.00 2.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H RIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP70.0°F70.0°F70.0°F70.0°F10101111111111111214151616161616161616161717111112121314 <td>REHEAT LEAVING WB TEMP 59.7°F 58.9°F</td> <td>DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH</td> <td>MAX REHEAT CAPACITY 96 MBH 260 MBH</td> <td>REHEAT LEAVING RELATIVE HUMIDITY 55 52</td> <td>MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR</td>	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG $\begin{bmatrix} FAN\\ UNIT\\ NO \end{bmatrix}$ TAG8KMUA-3 (K1)10DOAS-I $\begin{bmatrix} FAN\\ UNIT\\ NO \end{bmatrix}$ TAG8KMUA-3 (K1)10DOAS-I $\begin{bmatrix} FAN\\ UNIT\\ NO \end{bmatrix}$ TAG8KMUA-3 (K1) $\begin{bmatrix} FAN\\ UNIT\\ NO \end{bmatrix}$ TAG8KMUA-3 (K1)10DOAS-I10DOAS-I11KX-111KX-111KX-1	-К 1 OOLING SCH TONNA TONNA 191) 10 -К 30 ATING SCH 30 ATING SCH 30 AT		15-10T-DOAS 30-30T-DOAS  PHASE MO VOLT 3 380-4 3 3 380-4 3 380-4 3 3 380-4 3 380-4 3 3 3 380-4 3 3 3 3	CAPTIVEAIRE         CAPTIVEAIRE         CAPTIVEAIRE         OUTDO         TOR       MOTOR         480       3         180       3         NPUT GAS PRESSURI         C 14 IN. W.C.         C 14 IN. W.C.         C 14 IN. W.C.         AT PUMP       HEAT FOUTSIDI         TEMP       DB TE         50.0°F       50.0         SUPPLY	15P-2         30P-4         30P-4         MOTOR         MOTOR         60         60         60         60         60         8         GAS         NATI	0       1         0       5         0       5         Y       MOTOR Q         Q       2         Q       2         Q       3         TYPE       EFFI         JRAL       JRAL         JRAL       30.0°F         WALL       WALL         MOUNT       Q	990       1990         250       5250         INDOC         INDOC         TY       ROWS         5         6         BURNER         CIENCY(%)         80         HEAT PUMP         DISCHARGE DB         TEMP         80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ONFAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-2A       KX-2B         KX-2B       KX-2B         KX-2B       KX-4         KX-2B       KX-4         KMUA       KMUA         KMUA-2 (H         KMUA       KMUA         KMUA       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F 79.8°F (K114) (K157.1) (K157.1) (K191) (P134) -1 (K114) (K141/157.1) (P134) -3 (K191) 4 (P134) -3 (K191) 4 (P134)	(LBS) 1897 4877 4877 MIXED AIR WB TEMP 75.2°F 75.2°F WEIGHT 41 LBS 58 LBS 32 LBS 41 LBS 58 LBS 107 LBS 107 LBS 107 LBS 107 LBS 107 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 26.500"W X 2 21.000"W X 4 49.500"W X 2 6.000"W X 4 6.000"W X 4	TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 21.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 11.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT.	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP70.0°F70.0°F70.0°F70.0°F70.0°F10HINGED.EDHINGED.EDHINGED.EDHINGED.TED.TED.ATED.16GAUGE	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 78.9 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG $8$ KMUA-3 (K1) $10$ DOAS-1 $10$ DOAS-1DOAS/RTU HEAFAN UNIT NO $8$ KMUA-3 (K1) $10$ DOAS-1 $6$ KMUA-3 (K1) $10$ DOAS-1 $7$ $8$ $10$ DOAS-1 $8$ KMUA-3 (K1) $10$ DOAS-1 $7$ $8$ $7$ $7$ $8$ $7$ $8$ $7$ $7$ $7$ $8$ $7$ $7$ $7$ $8$ $7$ $7$ $7$ $8$ $7$ $7$ $7$ $8$ $7$ $7$ $7$ $1$ $7$ $1$ $7$ $1$ $7$ $2$ $7$ $3$ $7$	-К 1 OOLING SCH TONNA 191) 10 -К 30 ATING SCH 30 ATING SCH 30 ATING SCH 595912 101) 244194 595912 595912 50 CAS CAS ATIS 191) CAS CAS CAS ATIS 101) CAS CAS CAS CAS	CASRTU4-1.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480       380-480         EDULE         OUTPUT       TEMP         195355       80°         476730       74°         DOAS/RTU MODEI       74°         GREASE       GRAV         YES       YES         YES       YES	15-10T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 380 380-4 380 380 380 380 380 380 380 380 380 380	CAPTIVEAIRE         CAPTIVEAIRE         OUTDO         TOR         MOTOR         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         50.0°F         50.0°F         50.0°F         SUPPLY         A         A         A         A         A         A         A         A         A         B	15P-2         30P-4         30P-4         MOTOR         MOTOR         60         60         60         60         60         60         60         0°F         VOTORIZED         DAMPER	0       1         0       5         0       5         Y       MOTOR Q         2       3         TYPE       EFFI         JRAL       JRAL         JRAL       30.0°F         WALL       MOUNT         WALL       WALL         MOUNT       1	990       1990         250       5250         INDOC         TY       ROWS         TY       ROWS         5       6         BURNER CIENCY(%)       6         80       1         BURNER CIENCY(%)       80         80       80         NEAT PUMP DISCHARGE DB TEMP         80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 OUTSIDEAIRDB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ONFAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-2A       KX-2B         KX-2B       KX-2B         KX-2B       KX-4         KX-4       KMUA         KMUA-2 (H         KMUA       KMUA         KMUA       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F (K114) (K141) (K157.1) (K191) (P134) -1 (K114) (X141/157.1) (P134) -3 (K191) 4 (P134) OAS-K	(LBS)         1897         4877         4877         MIXED AIR WB TEMP         75.2°F         75.2°F         WEIGHT         41 LBS         58 LBS         32 LBS         41 LBS         107 LBS         1128 LBS         107 LBS         218 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 26.500"W X 2 21.000"W X 4 6.000"W X 4	TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 20.00"L X 20.00 42.000"L X 20.00 2.000"L X 20.00 75.000"L X 20.00 71.000"L X 20.00 11.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT.	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH 3IZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 20 HINGED. 20 HINGED. 20 HINGED. 20 HINGED. 21 HINGED. 22 HINGED. 23 HINGED. 24 HINGED. 25 HINGED. 26 HINGED. 27 HINGED. 27 HINGED. 28 HINGED. 29 HINGED. 20 H	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 218.4 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG $8$ KMUA-3 (K1) $10$ DOAS-I $10$ DOAS-IDOAS/RTU HEAFAN UNIT NO $8$ KMUA-3 (K1) $10$ DOAS-I $11$ KX-1 $1$ KX-2 $1$ KX-2 $3$ KX-2 $4$ KX-3	-K 1 OOLING SCH OOLING SCH TONNA 191) 10 -K 30 ATING SCH MUS 101 ATING SCH S 191) 244194 -K 595912 MUS ATIS	CASRTU4-I.600-       EDULE       COMPRESSOF       AGE     VOLTAGE       380-480       380-480       380-480       OUTPUT       DULE       0UTPUT       195355       80°       195355       AGE       QREASE       GREASE       GREASE       GREASE       GREASE       YES       YES	15-10T-DOAS 30-30T-DOAS  PHASE MO VOLT 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 3 380-4 3 3 380-4 3 3 380-4 3 3 380-4 3 3 380-4 3 3 380-4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CAPTIVEAIRE         CAPTIVEAIRE         CAPTIVEAIRE         OUTDO         TOR         AGE       MOTOR         480       3         180       3         IROPUT GAS PRESSURI         IC 14 IN. W.C.         IC 14 IN. W.C.         C 14 IN. W.C.         SUPPLY         DE RING DB TEMP         JARGE       GRAVITY DAMPER         MARGE       GRAVITY N	15P-2         30P-4         30P-4         MOTOR         MOTOR         60         60         60         60         60         60         60         0°F         VOTORIZED         AMPER	0       1         0       5         0       5         0       2         2       3         TYPE       EFFI         JRAL       JRAL         JRAL       30.0°F         WALL       WALL         MOUNT       4         WALL       4         WALL       4         WALL       4         WALL       4         WALL       4         WALL       4         MOUNT       4	990       1990         250       5250         INDOC         TY       ROWS         TY       ROWS         5       6         BURNER CIENCY(%)       6         80       1         HEAT PUMP DISCHARGE DB TEMP       80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ON FAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-2A       KX-2A         KX-3       KX-4         KX-2B       KX-3         KX-4       KMUA         KMUA-2 (F       C         KMUA-2 (F       C         KMUA       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F (K114) (K157.1) (K191) (K157.1) (K191) (F134) -1 (K114) (A (141/157.1) (K191) (P134) -3 (K191) 4 (P134) DAS-K	(LBS)         1897         4877         MIXED AIR         WB TEMP         75.2°F         75.2°F         WEIGHT         41 LBS         32 LBS         41 LBS         107 LBS         107 LBS         2000         2010         2010         2010         2010         2010         2010         2010         2010         2010	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 26.500"W X 2 21.000"W X 4 49.500"W X 2 80.000"W X 2	TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 20.00"L X 20.00 2.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG WIDT 0"H RIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT.	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA TH, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 20 HINGED. 20 HINGED. 20 HINGED. 20 HINGED. 21 HINGED. 22 HINGED. 23 HINGED. 24 HINGED. 25 HINGED. 26 HINGED. 27 HINGED. 27 HINGED. 28 HINGED. 29 HINGED. 20 H	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 37.2 MBH 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 218.4 LBS/HR 218.4 LBS/HR
FAN UNIT NOTAG $8$ KMUA-3 (K1) $10$ DOAS-1 $10$ DOAS-1 $10$ DOAS-1 $FAN$ UNIT NOTAG $8$ KMUA-3 (K1) $10$ DOAS-1 $FAN$ UNIT NOTAG $8$ KMUA-3 (K1) $FAN$ UNIT NOTAG $8$ KMUA-3 (K1) $10$ DOAS-1 $10$ DOAS-1 $7$ $10$ $8$ KMUA-3 (K1) $10$ KX-2 $1$ KX-1 $2$ KX-2 $3$ KX-2 $4$ KX-3 $5$ KX-4 $6$ KMUA	-K 1 OOLING SCH OOLING SCH TONNA 191) 10 -K 30 ATING SCH 30 ATING SCH 30	CASRTU4-1.600-         EDULE         COMPRESSOF         AGE       VOLTAGE         380-480         380-480         195355       80°         195355       80°         195355       80°         DOAS/RTU MODEI         RTU2-1.250-15-10T-         GREASE       GRAV         CUP       SACARD         YES       YES         YES       YES         YES       YES         YES       YES         YES       YES	15-10T-DOAS 30-30T-DOAS 30-30T-DOAS PHASE MO VOLT 3 380-4 3 3 380-4 3 380-4 3 3 380-4 3 380-4 3 3 380-4 3 380-4 3 3 380-4 3 3 380-4 3 380-4 3 3 380-4 3 380-4 3 3 38	CAPTIVEAIRE         CAPTIVEAIRE         OUTDO         TOR         MOTOR         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         3         480         50.0°F         50.0°F         50.0°F         50.0°F         SUPPLY         A         A         A         A         A         A         A         A         A         A         A	15P-2         30P-4         30P-4         MOTOR         MOTOR         60         60         60         60         60         60         60         0	0       1         0       5         0       5         0       2         2       3         TYPE       EFFI         JRAL       JRAL         JRAL       30.0°F         WALL       WALL         MOUNT       4         WALL       4         WALL       4         WALL       4         WALL       4         WALL       4         WALL       4         MOUNT       4	990       1990         250       5250         INDOC         TY       ROWS         TY       ROWS         5       6         BURNER CIENCY(%)       6         80       1         BURNER CIENCY(%)       80         80       80         80.0°F       80.0°F	1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F T 79.8°F CURB AS NO ON FAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         75.2°F       75.2°F         SEMBLIES       KX-1         KX-2A       KX-2B         KX-2B       KX-2B         KX-2B       KX-4         KX-2B       KX-4         KMUA       KMUA         KMUA-2 (H         KMUA       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F (K114) (K157.1) (K191) (K191) (F134) -1 (K114) (A (P134) -3 (K191) 4 (P134) OAS-K	(LBS)         1897         4877         MIXED AIR         WB TEMP         75.2°F         75.2°F         WEIGHT         41 LBS         58 LBS         32 LBS         41 LBS         107 LBS         107 LBS         1128 LBS         1128 LBS         1128 LBS         128 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 23.000"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 31.000"W X 2 6.000"W X 4 6.000"W X 4 49.500"W X 4 6.000"W X 4 80.000"W X 2	TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 21.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 75.000"L X 20.00 71.000"L X 20.00 111.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT.	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F 70.0°F 10 HINGED. 20 HINGED. 20 HINGED. 20 HINGED. 20 HINGED. 21 HINGED. 22 HINGED. 23 HINGED. 24 HINGED. 25 HINGED. 26 HINGED. 27 HINGED. 27 HINGED. 28 HINGED. 29 HINGED. 20 H	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 218.4 LBS/HR
FAN UNIT NO       TAG         8       KMUA-3 (K1)         10       DOAS-I         DOAS/RTU HEA         FAN UNIT NO         8       KMUA-3 (K1)         10       DOAS-I         FAN UNIT NO       TAG         8       KMUA-3 (K1)         10       DOAS-I         FAN UNIT NO       TAG         8       KMUA-3 (K1)         FAN NO       TAG         8       KMUA-3 (K1)         FAN NO       TAG         10       DOAS-I         FAN NO       KMUA-3 (K1)         FAN NO       KMUA-3 (K1)         1       KX-1         1       KX-2         3       KX-2B         4       KX-3         5       KX-4         6       KMUA-2 (I)         9       KMUA-2 (I)	-K 1 OOLING SCH OOLING SCH TONNA 191) 10 -K 30 ATING SCH MUNUT S 191) 244194 -K 595912 191) 244194 -K 595912 CAS ORIES TAG 1 (K114) CAS ORIES TAG 1 (K114) A (K141) 3 (K157.1) 3 (K191) 4 (P134) A-1 (K114) (K141/157.1) A (P134)	CASRTU4-1.600-         COMPRESSOF         AGE       VOLTAGE         380-480       380-480         EDULE         0UTPUT       TEMP         195355       80°         476730       74°         EXHAU         0OAS/RTU       MODEI         RTU2-1.250-15-10T-       5         GREASE       GRAV         VES       9         YES       9	15-10T-DOAS 30-30T-DOAS  PHASE MO VOLT 3 380-4	CAPTIVEAIRE         CAPTIVEAIRE         OUTDO         TOR       MOTOR         480       3         190       100         191       100         192       100         193       100         194       100         194       100         194       100         195       100         194       100	15P-2         30P-4         30P-4         MOTOR         MOTOR         60         60         60         60         60         8         60         8         9         10 <td>0       1         0       5         0       5         0       2         0       2         1       2         3       3         TYPE       EFFI         JRAL       1         JRAL       3         WALL       30.0°F         WALL       WALL         MOUNT       4         WALL       4         WALL       4         WALL       4         WALL       4         WALL       4         WALL       4         MOUNT       4         WALL       4         WALL       4         MOUNT       4</td> <td>990         1990           250         5250           INDOC           TY         ROWS           TY         ROWS           5         6           BURNER CIENCY(%)         6           80         1           BURNER CIENCY(%)         80           80         80</td> <td>1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2</td> <td>2.000 1.3460 10.000 5.2120 OUTSIDEAIRDBTEMP T 79.8°F CURBAS NO ONFAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10</td> <td>3       460         3       460         3       460         0UTSIDE AIR WB TEMP         75.2°F         75.2°F         SEMBLIES KX-28         KX-1         KX-28         KX-28         KX-28         KX-28         KX-28         KX-28         KX-28         KX-28         KX-4         KMUA         KMUA-2 (H         KMUA         KMUA         KMUA    </td> <td>28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F (K114) (K141) (K157.1) (K191) (P134) -1 (K114) (P134) -3 (K191) 4 (P134) OAS-K</td> <td>(LBS)         1897         4877         MIXED AIR WB TEMP         75.2°F         75.2°F         WEIGHT         41 LBS         58 LBS         32 LBS         41 LBS         107 LBS         107 LBS         218 LBS         218 LBS</td> <td>LEAVING DB TEMP 53.2°F 54.5°F</td> <td>LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB</td> <td>LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 23.000"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 31.000"W X 2 6.000"W X 4 6.000"W X 4 6.000"W X 4 6.000"W X 4 80.000"W X 2</td> <td>TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 79.000"L X 20.00 1.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 75.000"L X 20.00 71.000"L X 20.00 111.000"L X 20.00</td> <td>SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT</td> <td>LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA</td> <td>REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F ED HINGED. ED HINGED. ED HINGED. ED HINGED. ED HINGED. TED. TED. TED. TED. TED.</td> <td>REHEAT LEAVING WB TEMP 59.7°F 58.9°F</td> <td>DESIRED REHEAT CAPACITY 90.2 MBH</td> <td>MAX REHEAT CAPACITY 96 MBH 260 MBH</td> <td>REHEAT LEAVING RELATIVE HUMIDITY 55 52</td> <td>MOISTURE REMOVAL RATE 218.4 LBS/HR</td>	0       1         0       5         0       5         0       2         0       2         1       2         3       3         TYPE       EFFI         JRAL       1         JRAL       3         WALL       30.0°F         WALL       WALL         MOUNT       4         WALL       4         WALL       4         WALL       4         WALL       4         WALL       4         WALL       4         MOUNT       4         WALL       4         WALL       4         MOUNT       4	990         1990           250         5250           INDOC           TY         ROWS           TY         ROWS           5         6           BURNER CIENCY(%)         6           80         1           BURNER CIENCY(%)         80           80         80	1.000         2.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 OUTSIDEAIRDBTEMP T 79.8°F CURBAS NO ONFAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10	3       460         3       460         3       460         0UTSIDE AIR WB TEMP         75.2°F         75.2°F         SEMBLIES KX-28         KX-1         KX-28         KX-28         KX-28         KX-28         KX-28         KX-28         KX-28         KX-28         KX-4         KMUA         KMUA-2 (H         KMUA         KMUA         KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F (K114) (K141) (K157.1) (K191) (P134) -1 (K114) (P134) -3 (K191) 4 (P134) OAS-K	(LBS)         1897         4877         MIXED AIR WB TEMP         75.2°F         75.2°F         WEIGHT         41 LBS         58 LBS         32 LBS         41 LBS         107 LBS         107 LBS         218 LBS         218 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 23.000"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 31.000"W X 2 6.000"W X 4 6.000"W X 4 6.000"W X 4 6.000"W X 4 80.000"W X 2	TOTAL CAPACITY 144.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 79.000"L X 20.00 1.000"L X 20.00 2.000"L X 20.00 2.000"L X 20.00 75.000"L X 20.00 71.000"L X 20.00 111.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH SIZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F ED HINGED. ED HINGED. ED HINGED. ED HINGED. ED HINGED. TED. TED. TED. TED. TED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 218.4 LBS/HR
FAN UNIT NO       TAG         8       KMUA-3 (K1)         10       DOAS-II         DOAS/RTU HEA         FAN UNIT NO         8       KMUA-3 (K1)         10       DOAS-II         FAN UNIT NO       TAG         8       KMUA-3 (K1)         10       DOAS-II         FAN UNIT NO       TAG         8       KMUA-3 (K1)         FAN NO       TAG         8       KMUA-3 (K1)         FAN UNIT NO       TAG         10       DOAS-II         FAN UNIT NO       TAG         11       KX-1         2       KX-2         3       KX-2B         4       KX-3         5       KX-4         6       KMUA-2 (I)         9       KMUA-3	-K 1 OLING SCH OLING SCH TONNA 191) 10 -K 30 ATING SCH MUNUT S 191) 244194 -K 595912 MUNUT S 595912 CAS ORIES TAG 1 (K114) A (K141) 3 (K157.1) 3 (K191) 4 (P134) A-1 (K114) (K141/157.1) A-4 (P134)	CASRTU4-1.600- EDULE COMPRESSOF AGE VOLTAGE 380-480 380-480 EDULE 0UTPUT TEMP 195355 800 476730 740 195355 800 476730 740 CUPUT TEMP 195355 800 0000000000000000000000000000000000	15-10T-DOAS 30-30T-DOAS 30-30T-DOAS  PHASE MO VOLT 3 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 380-4 3 3 380 4 3 3 380-4 3 3 380-4 3 3 380-4	CAPTIVEAIRE         CAPTIVEAIRE         OUTDO         TOR         MOTOR         80         3         80         3         80         3         80         3         80         3         80         3         3         80         3         80         3         80         3         3         3         80         3         3         3         3         3         3         3         3         3         3         3         3         3         3         4         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         50.0°F         6         6         7         7	15P-2         30P-4         30P-4         MOTOR         MOTOR         60         7         0°F         9         YES         YES         YES         YES	0       1         0       5         0       5         0       5         0       2         0       2         3       3         TYPE       EFFI         JRAL       1         JRAL       3         WALL       30.0°F         WALL       WALL         MOUNT       1         WALL       1         WALL <td>990       1990         250       5250         INDOC         TY       ROWS         TY       ROWS         6         BURNER CIENCY(%)         80         HEAT PUMP DISCHARGE DB TEMP         80.0°F</td> <td>1.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2</td> <td>2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F CURB AS NO ON FAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10</td> <td>3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         SEMBLIES       KX-1         KX-2P       KX-2R         KX-3       KX-4         KX-4       KMUA         KMUA-2 (P       KMUA         KMUA-2 (P       KMUA         KMUA-2 (P       KMUA</td> <td>28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F (K114) (K141) (K157.1) (K191) (P134) -1 (K114) (141/157.1) (P134) -3 (K191) 4 (P134) DAS-K</td> <td>(LBS)         1897         4877         MIXED AIR         WB TEMP         75.2°F         75.2°F         WEIGHT         41 LBS         58 LBS         32 LBS         41 LBS         107 LBS         107 LBS         218 LBS         218 LBS</td> <td>LEAVING DB TEMP 53.2°F 54.5°F</td> <td>LEAVING WB TEMP 53.1°F 52.8°F ITEM CURB CURB CURB CURB CURB CURB CURB CURB</td> <td>LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 31.000"W X 3 42.000"W X 4 6.000"W X 4 6.000"W X 4 21.000"W X 2 80.000"W X 2</td> <td>TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 21.000"L X 20.00 2.000"L X 20.00 75.000"L X 20.00 71.000"L X 20.00 111.000"L X 20.00</td> <td>SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 00"H ALONG WIDT</td> <td>LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH 3IZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA TH, RIGHT INSULA H, RIGHT INSULA</td> <td>REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F D HINGED. ED HINGED. ED HINGED. ED HINGED. ED HINGED. TED. TED. ATED. ATED.</td> <td>REHEAT LEAVING WB TEMP 59.7°F 58.9°F</td> <td>DESIRED REHEAT CAPACITY 90.2 MBH</td> <td>MAX REHEAT CAPACITY 96 MBH 260 MBH</td> <td>REHEAT LEAVING RELATIVE HUMIDITY 55 52</td> <td>MOISTURE REMOVAL RATE 218.4 LBS/HR</td>	990       1990         250       5250         INDOC         TY       ROWS         TY       ROWS         6         BURNER CIENCY(%)         80         HEAT PUMP DISCHARGE DB TEMP         80.0°F	1.000         2.000         FACE ARE         11.9 SQF         25.3 SQFT         COP         3.2	2.000 1.3460 10.000 5.2120 OUTSIDE AIR DB TEMP T 79.8°F T 79.8°F CURB AS NO ON FAN 1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10	3       460         3       460         3       460         0UTSIDE       AIR         WB TEMP       75.2°F         SEMBLIES       KX-1         KX-2P       KX-2R         KX-3       KX-4         KX-4       KMUA         KMUA-2 (P       KMUA         KMUA-2 (P       KMUA         KMUA-2 (P       KMUA	28.1A 30A 81.6A 90A MIXED AIR DB TEMP 79.8°F 79.8°F (K114) (K141) (K157.1) (K191) (P134) -1 (K114) (141/157.1) (P134) -3 (K191) 4 (P134) DAS-K	(LBS)         1897         4877         MIXED AIR         WB TEMP         75.2°F         75.2°F         WEIGHT         41 LBS         58 LBS         32 LBS         41 LBS         107 LBS         107 LBS         218 LBS         218 LBS	LEAVING DB TEMP 53.2°F 54.5°F	LEAVING WB TEMP 53.1°F 52.8°F ITEM CURB CURB CURB CURB CURB CURB CURB CURB	LEAVING DP TEMP 53.1°F 51.6°F 26.500"W X 2 38.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 26.500"W X 2 31.000"W X 3 42.000"W X 4 6.000"W X 4 6.000"W X 4 21.000"W X 2 80.000"W X 2	TOTAL CAPACITY 144.0 MBH 384.0 MBH 384.0 MBH 26.500"L X 20.00 38.500"L X 20.00 23.000"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 26.500"L X 20.00 21.000"L X 20.00 2.000"L X 20.00 75.000"L X 20.00 71.000"L X 20.00 111.000"L X 20.00	SENSIBLE CAPACITY 56.6 MBH 142.1 MBH 142.1 MBH 142.1 MBH 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG LENG 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 0"HRIGHT. 00"H ALONG WIDT 00"H ALONG WIDT	LATENT CAPACITY 87.4 MBH 241.9 MBH 241.9 MBH 3IZE TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI TH, RIGHT VENTI H, RIGHT INSULA TH, RIGHT INSULA H, RIGHT INSULA	REHEAT LEAVING DB TEMP 70.0°F 70.0°F 70.0°F D HINGED. ED HINGED. ED HINGED. ED HINGED. ED HINGED. TED. TED. ATED. ATED.	REHEAT LEAVING WB TEMP 59.7°F 58.9°F	DESIRED REHEAT CAPACITY 90.2 MBH	MAX REHEAT CAPACITY 96 MBH 260 MBH	REHEAT LEAVING RELATIVE HUMIDITY 55 52	MOISTURE REMOVAL RATE 218.4 LBS/HR

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![](_page_9_Picture_14.jpeg)

FAN C	PTIONS				
FAN UNIT NO	TAG	QTY DESCRIPTION	FAN UNIT TAG NO	QTY	DESCRIPTION
		1 GREASE BOX.		1	HEATED DRAIN KIT FOR RTU. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER.
1	KX-1 (K114)	1 FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK (SUPPLIED BY OTHERS).
		1 LOAD REACTOR MOUNTED IN FAN.		1	OCCUPIED SCHEDULING.
		1 2 YEAR PARTS WARRANTY.		1	RTU SIZE 2 SIDE DISCHARGE.
		1 GREASE BOX.		1	SIZE 2 RTU CURB DUCT HANGER.
2	KX-2A (K141)	1 FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.		1	10 TON MODULATING COOLING OPTION WITH HEAT PUMP, 460/480V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FAN(S).
		1 LOAD REACTOR MOUNTED IN FAN.		1	10 TON MODULATING REHEAT OPTION WITH HEAT PUMP. DISCHARGE DEWPOINT CONTROL.
		1 2 YEAR PARTS WARRANTY.		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.
		1 I 19-BDD DAMPER.		1	VFD FACTORY MOUNTED AND WIRED IN COMMERCIAL CONTROL VESTIBULE FOR RTU.
3	KX-2B (K157.1)	1 ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION.		1	VAV PACKAGE W/ 0-10VDC INPUT CONTROL (571 VFD INCLUDED).
		1 2 YEAR PARTS WARRANTY.		1	LOAD REACTOR MOUNTED IN FAN.
		1 GREASE BOX.		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS).
4	KX-3 (K191)	1 FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.		1	INLET PRESSURE GAUGE, 0-35".
		1 LOAD REACTOR MOUNTED IN FAN.		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.
		1 2 YEAR PARTS WARRANTY.		1	LOW FIRE START.
		1 GREASE BOX.		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1 FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.
5	KX-4 (P134)	1 LOAD REACTOR MOUNTED IN FAN.	9 KMUA-4 (P134)	1	3 TON SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 DF/EH MUA (1,100 TO 1,800 CFM), 460V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.
		1 2 YEAR PARTS WARRANTY.		1	DOWNTURN PLENUM FOR SIZE 1 DX COIL MODULE.
		1 SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE. USED ON HEATERS UNDER 2500		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH
		CFM.	_		VFD) - THREE PHASE ONLY.
		1 INLET PRESSURE GAUGE, 0-35".		1	LOAD REACTOR MOUNTED IN FAN.
		1 MANIFULD PRESSURE GAUGE, -5 TO 15" WC.		1	2 YEAR PARTS WARRANTY.
		1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.		1	INI ET DESSURE GAUGE, 0 TO TO WC, I FURNACE.
		1 MOTORIZED BACKDRAFT DAMPER FOR AZ-D HOUSING. MEETS AMICA CLASS TA RATING.	_	1	
6	KMUA-1 (K114)				
		1 TO 3,000 CFM), 460V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.		1	IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" OPTION PREWIRE MUST BE SELECTED. DO NOT PROVIDE SUPPLY STARTER IN PREWIRE.
		1 SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.
		1 LOAD REACTOR MOUNTED IN FAN.		1	OVERHEAT STAT.
		1 2 YEAR PARTS WARRANTY.		1	VFD FACTORY MOUNTED AND WIRED IN COMMERCIAL CONTROL VESTIBULE FOR RTU.
		1 INLET PRESSURE GAUGE, 0-35".		1	30 TON MODULATING COOLING OPTION, 460/480V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FAN(S).
		1 MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.		1	DDC IP BACNET REMOTE UNIT MONITORING. ALLOWS FOR REMOTE DDC OCCUPIED OVERRIDE AND SET POINT CHANGES.
		1 LOW FIRE START.		1	CONTROL PANEL ENCLOSURE HEATER. RECOMMENDED FOR WINTER DESIGN TEMPERATURE LESS THAN 0°F. PCB CONTROLS.
		1 MOTORIZED BACKDRAFT DAMPER FOR A4-D HOUSING. MEETS AMCA CLASS 1A RATING.		1	HEATED DRAIN KIT FOR RTU. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER.
7	KMUA-2 (K141/157.1)	10 TON 2 CIRCUIT (5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 4 DF/EH MUA (6,000 TO 9,000 CFM), 460V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.	10 DOAS-K	1	4" MERV 15 FILTERS FOR SIZE 4 RTU. QTY 12.
		1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.		1	RTU ANALOG 0-10V BAS INTAKE/RETURN DAMPER CONTROL TO ACTUATOR.
		1 SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.		1	CLOGGED FILTER SWITCH WITH NOTIFICATION ON HMI.
		1 LOAD REACTOR MOUNTED IN FAN.		1	SIZE 4 RTU CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX.
		1 2 YEAR PARTS WARRANTY.		1	RTU SIZE 4 SIDE RETURN.
		1 INLET PRESSURE GAUGE, 0-35".		1	RTU SIZE 4 SIDE DISCHARGE.
		1 MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE.		1	SIZE 4 RTU CURB DUCT HANGER.
		1 TOTAL CFM MONITORING FOR DOAS.		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK (SUPPLIED BY OTHERS).
		1 OVERHEAT STAT.		1	OCCUPIED SCHEDULING.
		1 RTU FIXED 100% OA INTAKE CONTROL.		1	30 TON MODULATING REHEAT OPTION. DISCHARGE DEWPOINT CONTROL.
8	KMUA-3 (K191)	1 RTU SIZE 2 NO RETURN.		1	VAV PACKAGE W/ BUILDING STATIC PRESSURE CONTROL- MUA -0.25" TO +0.25" OF WC. (571 VFD INCLUDED).
		1 CLOGGED FILTER SWITCH WITH NOTIFICATION ON HMI.		1	LOAD REACTOR MOUNTED IN FAN.
		1 4" MERV 15 FILTERS SIZE 2 RTU. QTY 4.		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS).
		1 CONTROL PANEL ENCLOSURE HEATER. RECOMMENDED FOR WINTER DESIGN TEMPERATURE LESS THAN 0°F. PCB CONTROLS.			

Α

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	1308.01 Date 4/30/2021
8	Scale 1/8" = 1'-0" Drawing
	MECHANICAL KITCHEN EQUIPMENT
	M6.04
C	PERMIT / GMP SET
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<u>FAN #1 DU180HFA - EXHAUST FAN (KX-1 (K114))</u>

2

FAN #5 DU180HFA - EXHAUST FAN (KX-4 (P134))

![](_page_11_Figure_1.jpeg)

- 24

DUCTWORK BETWEEN

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EXHAUST RISER ON HOOD AND FAN (BY OTHERS).

![](_page_11_Figure_2.jpeg)

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS.

- THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING.

![](_page_11_Figure_16.jpeg)

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![](_page_11_Picture_22.jpeg)

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# FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS. - RESTAURANT MODEL.

- UL705 AND UL762 AND ULC-S645 - VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH.
- NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.
- ABNORMAL FLARE-UP TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

# <u>OPTIONS</u>

GREASE BOX. FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS. LOAD REACTOR MOUNTED IN FAN. 2 YEAR PARTS WARRANTY.

# FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS. - RESTAURANT MODEL. - UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING. - THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

# ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

# <u>OPTIONS</u>

GREASE BOX. FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS. LOAD REACTOR MOUNTED IN FAN. 2 YEAR PARTS WARRANTY.

![](_page_11_Figure_53.jpeg)

- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645 - VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

# NORMAL TEMPERATURE TEST

- EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.
- ABNORMAL FLARE-UP TEST
- EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.
- <u>OPTIONS</u>
- GREASE BOX. FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS. LOAD REACTOR MOUNTED IN FAN. 2 YEAR PARTS WARRANTY.

![](_page_11_Figure_64.jpeg)

![](_page_11_Figure_65.jpeg)

![](_page_11_Figure_66.jpeg)

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	no. date revision
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8	Date 4/30/2021 Scale
-	1/8" = 1'-0" Drawing MECHANICAL KITCHEN
	M6.U5
9	PERMIT / GMP SET
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<u>FAN #3 DU85HFA - EXHAUST FAN (KX-2B (K157.1))</u>

![](_page_12_Figure_1.jpeg)

# - UL705.

![](_page_12_Figure_3.jpeg)

# <u>FAN #4 DU180HFA - EXHAUST FAN (KX-3 (K191))</u>

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![](_page_12_Figure_5.jpeg)

# FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS.

- VARIABLE SPEED CONTROL.

- INTERNAL WIRING.

- THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - NEMA 3R SAFETY DISCONNECT SWITCH.

# <u>OPTIONS</u>

I 19-BDD DAMPER. ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION. 2 YEAR PARTS WARRANTY.

![](_page_12_Figure_15.jpeg)

# BACKDRAFT DAMPER INSTALLATION

![](_page_12_Figure_17.jpeg)

![](_page_12_Figure_18.jpeg)

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).

- ROOF MOUNTED FANS. - RESTAURANT MODEL.

- UL705 AND UL762 AND ULC-S645

- VARIABLE SPEED CONTROL.

- INTERNAL WIRING.

- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

- HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING.

- NEMA 3R SAFETY DISCONNECT SWITCH.

## NORMAL TEMPERATURE TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

**OPTIONS** 

GREASE BOX.

FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS. LOAD REACTOR MOUNTED IN FAN. 2 YEAR PARTS WARRANTY.

![](_page_12_Figure_34.jpeg)

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	300 West Chestnut Street, Suite 201, Ephrata, PA 17522 p. 717.733.5810 INTERIOR DESIGNER Medino Design Partnership. Inc.
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# BOSNDEFINIS CHIPARCHETHONIS FLOW RIGHT -> LEFT.

PRESEAUREF MRMASHDUODEIN, GREVER MWASH, NIVAS AURESOW 16 BING AND PUSH TO CONNECT FITTINGS. SEPARATE 460V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 3EZ1001R. 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH. HANDEDIDOLEAD WEALTION DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION). **13.** 2 YEAR PARTS WARRANTY.

SUGGESTED STRAIGHT DUCT SIZE IS 26" x 26".

![](_page_13_Figure_5.jpeg)

![](_page_13_Figure_6.jpeg)

Н

![](_page_13_Figure_17.jpeg)

# TYPICAL DRAIN TRAP INSTALL

![](_page_13_Figure_19.jpeg)

## RECOMMENDED COOLING COIL DRAIN TRAP CONFIGURATION.

![](_page_13_Figure_21.jpeg)

1) 1" DIAMETER PVC PIPE ONLY. 2) USE ONLY LOW PROFILE COUPLINGS. 3) ADD CLEAN OUT AS SHOWN.

	ARCHITECT
	700 E. Pratt St, Suite 1200, Baltimore, MD 21202 p. 410. 837. 7311 STRUCTURAL ENGINEER Morabito Consultants 952 Ridgebrook Road, suite 1700. Sparks MD 21152
	p. 410.467.2377 <b>FOOD SERVICE</b> Scopos Hospitality Group 300 West Chestnut Street, Suite 201, Ephrata, PA 175 p. 717.733.5810
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FAN #7 A4-D.1500-30D-MPU - HEATER (KMUA-2 (K141/157.1)) 30DBREAS FIRED HEATED MAKE UP AIR UNIT WITH 30" MIXED FLOW DIRECT DRIVE FAN AND

27 HREADESH2020D WITH EZ FILTERS. SCOURSERVISSION REED AND ENCODED AND THE ENCODED AND THE PACENT AND SIZE.

INCLUDED. BXICOOQNFDUIAR/CIRCERTK(575)TMORMAARERAGINGED/CODOEINRA TORTROMPROBREAZET / ANTOERDARD COLLEAR/TARIKINGED (UNIT TO GLUDOESFOROWDENSORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 460V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 4EZ0801C.

O COMAGE ON KONVOLRING ON DUTION ING REVICE MACOMMENTED REATIONS IMPONDED BE ON TO THE PART CONSULTION OF SHIELDED TWISTED PAIR. OR SHEPARAOVE PLACKAGE/IRING/PLACE/SEEPERRITE/AKEVARCANPUNITO.SOPPION FAINSTERSEDECSTED AV HEINSTOLEN RUNCEVFELEOTREDVAREFRAMEDCV TO MUA SWITCH.

PARATOUNNAR RANDER EACTOR IN FAN. 12. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).

<sup>1</sup>NOTESOPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 32" x 32".

![](_page_14_Figure_6.jpeg)

![](_page_14_Figure_7.jpeg)

A

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SUPPLY SIDE HEATER INFORMATION: WINTER TEMPERATURE = 0°F. TEMP. RISE = 80°F. BTUs CALCULATED OFF ACTUAL AIR DENSITY. OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 555470. INPUT BTUS AT ALTITUDE OF 0.0 FT. = 603772. OUTPUT BTUS AT ALTITUDE OF 348 FT. = 548521. INPUT BTUs AT ALTITUDE OF 348 FT. = 596218.

![](_page_14_Figure_15.jpeg)

## **RECOMMENDED COOLING COIL** DRAIN TRAP CONFIGURATION.

![](_page_14_Figure_23.jpeg)

![](_page_14_Figure_24.jpeg)

1) 1" DIAMETER PVC PIPE ONLY. 2) USE ONLY LOW PROFILE COUPLINGS. 3) ADD CLEAN OUT AS SHOWN.

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	p. 410.467.2377 FOOD SERVICE Scopos Hospitality Group 200 West Chaster Street Suite 201 Enhance DA 1752
	S00 West Chesthut Street, Suite 201, Ephrata, PA 1752     p. 717.733.5810      INTERIOR DESIGNER      Medino Design Partnership. Inc.
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	Project Name BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - COMMONS BUILDING Project Number
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FAN #9 A1-D.500-15D-MPU - HEATER (KMUA-4 (P134)) IN DARE OTO GAS WIRE DE LE LA TIER SIAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.

BASCHWATE SSSURFEABOREEGEALIES FLOOVY SRINGCHTES VEET 2.5" DIAMETER. 1/4" THREAD SIZE. THE ANO PRESENTATE CONCERNING BOUCKETHE BUD WEATER COUNT TONE DER SIZE WHEN

WIND RATE ON DEEDS BLACENT, DE TAIND DARID REAL VIX NAZED FOOR IS 12 FUCSTRAN, DAR DR & ANO DUANABE, HEATHELE WINARSE, TFB 120S ACTUATOR INCLUDED. MOANSIDRIKNBUSY SING COMMUNICATIONS MODULE. REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR 3G CELLULAR SERVICE. INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF SHIELDED TWISTED PAIR. OCOTIONICSUNGLING LITZE ODULAR MOCKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (1,100 TO 1,800 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 460V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 2EZ1001N. 000 DOM/DICORNING BNUE AFREQUEED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS. UNISE PARATEN 200VSC BY BISINGE CAE BAAGHER OR ON ANTENUS AND IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120 VAC INPUT TO SUPPLY

FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH. MASMICAUNEDLOODORRESISEINOBLIN (BAIRNER/BLOWER/MPU SECTION). 13. EINEARDRARDBLEARRANTY.

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

![](_page_15_Figure_5.jpeg)

![](_page_15_Figure_6.jpeg)

В

TYPICAL DRAIN TRAP INSTALL

![](_page_15_Figure_10.jpeg)

![](_page_15_Figure_11.jpeg)

![](_page_15_Figure_12.jpeg)

1) 1" DIAMETER PVC PIPE ONLY. 2) USE ONLY LOW PROFILE COUPLINGS. 3) ADD CLEAN OUT AS SHOWN.

![](_page_15_Figure_14.jpeg)

![](_page_15_Figure_16.jpeg)

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 0°F. TEMP.

AT ALTITUDE OF 0.0 FT. = 115158.

INPUT BTUS AT ALTITUDE OF 0.0 FT.

BTUS CALCULATED OFF ACTUAL AIR DENSITY.

RISE = 80°F.

OUTPUT BTUs

◄ MIN. 14"

![](_page_15_Picture_25.jpeg)

DIRECT FIRED PROFILE PLATE SPECIFICATIONS: DESCRIPTION:

DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO.: US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRI UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT DIRECT FIRED WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION: SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

<u>CERTIFICATIONS:</u> ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

<u>GENERAL CONSTRUCTION:</u> -PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL. -PROFILE PLATES SHALL VARY IN SIZE PER UNIT.

-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER. -DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.

	<b>ARCHITECT</b> <b>HCM Design, Inc.</b> 700 E. Pratt St, Suite 1200, Baltimore, MD 21202 p. 410. 837. 7311
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![](_page_16_Figure_0.jpeg)

21. 30 TON 22. FAN.

<u>OPTIONS</u> 1. MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE. 2. INLET

PRESSURE GAUGE, 0-35". 3. TOTAL CFM MONITORING FOR DOAS.

SINGLE POINT ELECTRICAL CONNECTION FOR RTU. QNTY 1 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" OPTION PREWIRE MUST BE SELECTED. DO NOT PROVIDE SUPPLY STARTER IN PREWIRE. 5. CASLINK BUILDING

MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED. 6. OVERHEAT STAT.

7. VFD FACTORY MOUNTED AND WIRED IN COMMERCIAL CONTROL VESTIBULE FOR RTU.

8. 30 TON MODULATING COOLING OPTION, 460/480V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FAN(S). 9. DDC IP BACNET

REMOTE UNIT MONITORING. ALLOWS FOR REMOTE DDC OCCUPIED OVERRIDE AND SET POINT CHANGES.

10. CONTROL PANEL ENCLOSURE HEATER. RECOMMENDED FOR WINTER DESIGN TEMPERATURE LESS THAN

0°F. PCB CONTROLS. 11. HEATED DRAIN KIT FOR RTU. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER.

12. 4" MERV 15

FILTERS FOR SIZE 4 RTU. QTY 12. 13. RTU ANALOG 0-10V BAS

INTAKE/RETURN DAMPER CONTROL TO ACTUATOR. 14. CLOGGED FILTER

SWITCH WITH NOTIFICATION ON HMI.

15. SIZE 4 RTU CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX. 16. RTU SIZE 4 SIDE

RETURN. 17. RTU SIZE 4 SIDE DISCHARGE.

18. SIZE 4 RTU CURB DUCT HANGER.

19. COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK (SUPPLIED BY OTHERS).

20. OCCUPIED SCHEDULING.

MODULATING REHEAT OPTION. DISCHARGE DEWPOINT CONTROL.

VAV PACKAGE W/ BUILDING STATIC PRESSURE CONTROL- MUA -0.25" TO +0.25" OF WC. (571 VFD INCLUDED). 23. LOAD REACTOR MOUNTED IN

24. 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS).

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	<ul> <li>p. 610.313.9550</li> <li>MEPFP ENGINEER</li> <li>LAN Associates</li> <li>Engineering, Planning, Architecture Surveying, LLP</li> <li>252 Main Street, Goshen, NY 10924</li> </ul>
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	1308.01 Date 4/30/2021
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![](_page_17_Figure_0.jpeg)

## CONTROL SEQUENCE

1. UPON AN ENABLE COMMAND, THE CONTROL UNIT SHALL ACTIVATE THE MEF- MULTI USE EXHAUST FAN TO ESTABLISH REQUIRED PRESSURE IN THE DUCT SYSTEM. THE SUPPLY AIR FAN SHALL START TO ESTABLISH THE REQUIRED PRESSURE IN THE ROOM FOR COMBUSTION AIR. ALL EXTERNAL MECHANICAL LIMITS ARE MONITORED FOR STATUS. ONCE ALL THESE CONDITIONS ARE MET THE CONTROL SYSTEM WILL ENTER RUN MODE.

2. AS THE SYSTEM LOAD INCREASES OR DECREASES THE CONTROL UNIT WILL ADJUST BOTH THE MEF FAN OUTPUT TO MAINTAIN SET EXHAUST DUCT PRESSURE AND THE SUPPLY AIR FAN TO MAINTAIN ROOM PRESSURE.

3. IF PROPER EXHAUST DUCT PRESSURE CANNOT BE MAINTAINED OR AN EXTERNAL MECHANICAL LIMIT OPENS BECAUSE OF BECAUSE OF MECHANICAL OR ELECTRICAL FAILURE, THE CONTROL UNIT WILL GO IN ALARM MODE AND ANNUNCIATE THE CONDITION. WHILE IN ALARM MODE, THE CONTROL UNIT CONSTANTLY MONITORS THE PRESSURE AND LIMIT INPUTS. IF THE FAILURE CORRECTS ITSELF OR IS CORRECTED VIA INTERVENTION, THE SYSTEM WILL RETURN TO NORMAL OPERATION AUTOMATICALLY.

4. ATC CONTRACTOR, MECHANICAL CONTRACTOR, EQUIPMENT MANUFACTURER, GENERAL CONTRACTOR, DESIGN ENGINEER, AND COMMISSIONING ENGINEER SHALL MEET PRIOR TO SUBMITTING SHOP DRAWINGS TO REVIEW COORDINATION AND IMPLEMENTATION OF THE SPECIFIED CONTROL SEQUENCE. 5. WHEN AN INTERMITTENT MODE OF OPERATION IS DESIRED BASED ON DIRECT DYER COMMAND, CURRENT SENSORS WILL BE INSTALLED ON EACH OF THE DYERS' MOTOR LOAD LINES IN PARALLEL TO ENABLE AND DISABLE THE CONTROL UNIT.

6. WHEN DRYERS SHUT DOWN THE MEF FAN AND SUPPLY AIR FAN WILL WILL CONTINUE TO RUN IN POST-PURGE MODE FOR A SET PERIOD OF TIME TO REMOVE RESIDUAL EXHAUST DUCT GASES.

7. ONCE THE POST-PURGE CYCLE IS COMPLETED THE SYSTEM SECURES AND THE CONTROL UNIT ENTERS STAND-BY MODE.

![](_page_17_Picture_8.jpeg)

Application Laundry Exhaust System (LES) High Rise System (HRS) Supply Air System (SAS)

Performance Maximum capacity up to 6,000 CFM and up to 5" w.c. of static pressure

Listings and Ratings UL705, Standard for Power Ventilators CSA C22.2 No. 133, Tenth Edition Listed up to 350°F for continuous operation

Warranty

Two year mechanical warranty

**Ordering Matrix** MFF\*\*\*

www.laundryfab.com

\*\*\* = size - 004, 008, 015, 022, 025, 035, 050

# MEF

# Multi-Use Exhaust Fan

# Description

Model MEF multi-use exhaust fan is ETL listed laundry exhaust systems

Suitable for indoor or outdoor use Provides negative pressure in the exhaust shaft or laundry exhaust system, upstream of the venter, to

ensure safe appliance operation Drain holes prevent condensate accumulation are located around the unit

Direct drive motor for quiet, belt-free operation

# Construction

The housing and dynamically balanced backward inclined (BI) or curved (BC) impeller is constructed in 5052 Aluminum

# Motor

Electronically commutated 120 1Ø totally enclosed air over (TEAO) (MEF004-MEF015) Electronically commutated 208-230VAC, 1Ø totally enclosed air over (TEAO) (MEF022) Inverter duty 208 or 480VAC 3Ø, NEMA Premium induction, totally enclosed fan cooled (TEFC) (MEF025-050)

# **Standard Equipment**

Motor isolation plate Integrated inlet ring 1/2" NPT threaded drains

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Intertek

Dimension Information										
Model	MEF004	MEF008	MEF015	MEF022	MEF025	MEF035	MEF050			
Α	17-3/4"	20"	25"	32"	32"	38"	40-7/8"			
В	10"	11-3/8"	14-1/8"	15"	15"	21-3/4"	23-1/4"			
L	16"	16"	20"	22-3/4"	22-3/4"	32"	34"			
0	28-1/4"	28"	34-1/2"	37-3/4"	37-3/4"	58-1/4"	56-1/2"			
Vi	7-7/8"	9-7/8"	11-7/8"	15-7/8"	15-7/8"	17-7/8"	19-7/8"			
Vo	7-7/8"	9-7/8"	11-7/8"	15-7/8"	15-7/8"	17-7/8"	19-7/8"			
Weight	25 lbs	30 lbs	40 lbs	60 lbs	63 lbs	250 lbs	360 lbs			
Voltage	120	120	120	208-230	208/480	208/480	208/480			
Amps	8.1	8.1	8.1	6.8	6.8	9.8/4.9	12.6/6.4			
HP	1/2	1/2	1/2	3/4	1	3	5			
Freq	50/60	50/60	50/60	50/60	50/60	50/60	50/60			
Phase	1	1	1	1	3	3	3			
RPM	1800	1800	1800	1800	1800	1800	1800			
Impeller	BI	BI	Bi	BI	BI	BC	BC			
Motor	EC	EC	EC	EC	ID	ID	ID			

Control System: L100					
2/17	Version: <b>1.0</b>	DWG Rev:	Page #: <b>1 of 1</b>		
ltage: <b>/460</b>	3PH				
ie: 800-8	LaundryFa 381-0052 inf	b īo@laundryfal	o.com		
Contro	oller Output		ller Input		
Field Refer and w	Wiring to specification iring type	s for voltage,	amperage,		
Pneur	matic Tubing for	· pressure ref	erence		
Vent or Duct					
Alarm output dry contact					
24 VC	C power supply	/			
Duct p	pressure probe				
Press	ure transducer	-1 to 1 in. WC	2		
Suppl CS75 Press	y fan proving de Current Switch ure Switch	evice or GFS Diffe	rential		
Remo	te enable input	of controller			
Run s	tatus dry contac	ct			
Start/s	Stop: VFD run c	ommand			
Variat	ole analog signa	al 0-10VDC			
Variat	ole Frequency D	Drive			
Variat	ole Frequency a	nd Voltage o	utput		
S Outdoor Air Static Pressure Pickup Port					
	2/17 tage: /460 e: 800-8 Contro Field V Refer and w Pneur Vent o Alarm 24 VE Duct p Press Suppl CS75 Press Remo Run s Start/s Variat Variat	2/17       Version:         tage:       /460 3PH         LaundryFal         e: 800-881-0052       inf         Controller Output	2/17       Version:       1.0       DWG Rev:         /460 3PH         LaundryFab         e: 800-881-0052       info@laundryfal         Controller Output       Control         Field Wiring       Control         Refer to specifications for voltage, and wiring type       Control         Pneumatic Tubing for pressure ref       Vent or Duct         Alarm output dry contact       24 VDC power supply         Duct pressure probe       Pressure transducer -1 to 1 in. WC         Supply fan proving device       CS75 Current Switch or GFS Diffe         Pressure Switch       Remote enable input of controller         Run status dry contact       Start/Stop: VFD run command         Variable Frequency Drive       Variable Frequency and Voltage or		

![](_page_17_Figure_37.jpeg)

	Capacity					Capacity		
SP	MEF004	MEF008	MEF015	MEF022	MEF025	SP	MEF035	MEF050
0	445	900	1600	2390	2,655	0	4000	6090
0.25	415	825	1550	2275	2,525	0.50	3850	5920
0.50	385	750	1460	2170	2,410	1.00	3700	5750
0.75	345	655	1350	2040	2,265	1.50	3550	5580
1.00	290	550	1235	1910	2,120	2.00	3380	5390
1.25	200	420	1100	1770	1,965	2.50	3200	5180
1.50	N/A	N/A	940	1620	1,800	3.00	3000	4910
1.75	N/A	N/A	720	1450	1,610	3.50	2780	4700
2.00	N/A	N/A	N/A	1250	1,385	4.00	2520	4440

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# MEF - Multi-Use Exhaust Fan

120 S. Sylvania Ave, Suite A Fort Worth, TX 76111 Phone: 817-393-4029 www.laundryfab.com

MEF004-050 Rev 0619.1

Ιн

![](_page_17_Picture_48.jpeg)

![](_page_17_Picture_49.jpeg)

# Application

Clothes dryer supply air General make-up air

# Performance

w.c. of static pressure

# Listings and Ratings

UL507, Standard for Electrical Fans UL705, Standard for Power Ventilators Rated up to 140°F for continuous operation

# Warranty

Two year mechanical warranty

# **Ordering Matrix**

ISAF\*\*\* \*\*\* = size - 12, 20, 24, 37. 64 ISAF

# **Inline Supply Air Fan**

# Description

The inline supply air fan (ISAF) is CSA listed for all types of supply air requirements

Designed for indoor installation The fan can be configured for true inline or 90° orientation

Provides adequate supply of fresh air to ensure safe operation

External rotor motor for quiet, belt-free operation

# Construction

Galvanized steel housing with composite impeller

# Motor

Maximum capacity up to 6,200 CFM and up to 3.5" Electronically commutated 120VAC, 1Ø totally enclosed air over (TEAO)

# Standard Equipment

Junction box Motor isolation plate Integrated inlet ring EC-Flow<sup>™</sup>Technology

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Phone: 817-393-4029 www.LFSystems.net

Dimension Information					
Model	ISAF012	ISAF020	ISAF024	ISAF037	ISAF064
А	19-7/8"	23-5/8"	23-5/8"	27-5/8"	27-5/8"
В	16-1/2"	20-1/2"	20-1/2"	24-1/2"	24-1/2"
C	2-3/8"	2-3/8"	2-3/8"	2-3/8"	2-3/8"
Weight	60 lbs	95 lbs	95 lbs	128 lbs	150 lbs
Voltage	120	208-240	208 or 480	208 or 480	208 or 480
Amps	4.2	4.5	2.6/1.6	2.9/1.85	8.5/4.3
HP	1/2	1/2	1	1.5	4
Freq	50/60	50/60	50/60	50/60	50/60
Phase	1	1	3	3	3
RPM	2200	1320	1760	1560	1720

	Capacity				
SP	ISAF012	ISAF020	ISAF024	ISAF037	ISAF064
0	1210	2120	2560	3785	6260
1.00	1105	1480	2000	3315	5365
2.00	680	N/A	1310	2735	4430
3.00	N/A	N/A	N/A	N/A	3365

![](_page_17_Figure_78.jpeg)

![](_page_17_Figure_79.jpeg)

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# **ISAF** - Inline Supply Air Fan

ISAF012-064 Rev 0417.1

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	Scopos Hospitality Group 300 West Chestnut Street, Suite 201, Ephrata, PA 17522 p. 717.733.5810
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	p. 610.313.9550 MEPFP ENGINEER
	LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400
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	Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400
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	COLLEGE - COMMONS BUILDING Project Number 1308.01
8	Date 4/30/2021 Scale 1/8" = 1' 0"
	Drawing MECHANICAL POOL EVACUATOR
	SYSTEM DETAILS
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![](_page_19_Figure_0.jpeg)

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![](_page_20_Figure_0.jpeg)

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BMS CONTROL POINT LEGEND

![](_page_20_Figure_5.jpeg)

NATURAL GAS AND DX COOLING W/ HGRH

![](_page_20_Figure_6.jpeg)

![](_page_20_Picture_7.jpeg)

M6.08 N.T.S.

![](_page_20_Figure_12.jpeg)

![](_page_20_Figure_13.jpeg)

DX COOLING/HEATING

FROM PREVIOUS VRF DEVICE

![](_page_20_Figure_14.jpeg)

VRF-W-1, W-2, VRF-E-1 & E-2 14 M6.08 N.T.S.

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