

Quote Summary

ADVANSOR CO2 Rack Specifications

Hillphoenix

A DOVER COMPANY

Adam's Fairacre Farms Inc.
Adams Faircare Farms
Nys Route 211
Middletown, New York USA
10940

Salesman: Paul Hensley
Applications: Darrin Finney

Reference 127258.0

Configuration Name - Configuration

Revision Level:

Designator HVAC(*) Denotes Hillphoenix default vendor. Subject to change without notice.

General

| | | |
|---------------------------|---|-------------------------|
| Refrigerant type | ü | R-744 |
| Compressor class | ü | Mixed |
| Rack frame isolation type | ü | Cork & rubber pads |
| Refrigerant identifier | ü | Stenciled on compressor |

Discharge

| | | |
|-----------------------------|---|---------------------------------------|
| Discharge pressure rating | ü | 1885 psig/130 Bar |
| Solenoid valve manufacturer | ü | *GSR |
| Special group notes | ü | install 3 way gas cooler bypass valve |

Liquid

| | | |
|------------------------------------|---|--|
| Insulation thickness | ü | 3/4" wall |
| Provide liquid receiver | ü | |
| - location | ü | On rack frame |
| - type | ü | Vertical |
| - idle pressure rating | ü | 1305 psig/90 bar |
| - operating pressure rating | ü | 870 psig/60 bar |
| - size | ü | SE:V14x63 |
| - quantity | ü | One (1) |
| - insulate the receiver | ü | |
| - insulation thickness | ü | 3/4" wall |
| Liquid solenoid valve manufacturer | ü | *Sporlan |
| Special group notes | ü | single large receiver receiver pressure must be increased dew to system design |

Suction

| | | |
|------------------------------------|---|-----------------|
| LT group pressure rating | ü | 425 psig/30 bar |
| MT group pressure rating | ü | 650 psig/45 bar |
| Suction items insulation thickness | ü | 3/4" wall |
| LT group accumulator | ü | no |
| Provide a suction filter | ü | |
| - suction filter manufacturer | ü | *Danfoss |
| - install suction filter on | ü | MT group |
| - filter is factory installed | ü | |

Mechanical

| | | |
|---------------------------|---|---------|
| Ball valve manufacturer | ü | *Sanhua |
| Provide crankcase heaters | ü | |

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Oil

| | |
|-----------------------------|--|
| Oil class | ü Polyol Ester |
| - brand preference | ü BSE85K |
| - shipped loose | ü |
| Oil Float type | ü OMB-JB1 for LT, HBSO1 sensor and aux GSR solenoid for MT |
| - manufacturer | ü Emerson |
| - service valve type | ü Ball valve |
| Separator design type/class | ü Coalescent with external reservoir |
| - manufacturer | ü Westermeyer |

Electrical

| | |
|---|--------------------------------------|
| Control panel orientation | ü End of rack |
| Provide phase loss protection applied | ü Per rack |
| - selected model | ü HP Default |
| - protected by | ü Fuses |
| Compressor overcurrent protection by | ü Circuit breakers |
| Compressor or motor MOPD sizing basis | ü 125% |
| - circuit breaker manufacturer | ü Square 'D' |
| Contact type | ü Contactor |
| - manufacturer | ü Square 'D' |
| - class | ü IEC |
| Power point connection type | ü Two |
| Elec defrost contactor manufacturer [if applicable] | ü *Siemens |
| Elec defrost circuit breaker manufacturer [if applicable] | ü *Siemens |
| Flexible conduit type and application | ü Any flex type & raceway acceptable |
| Time delay manufacturer (where applicable) | ü *Crouzet |

Alarm

| | |
|--|------------------|
| Provide monitoring via controller for the following: | ü |
| - suction header temperature | ü |
| - liquid drain line temperature | ü |
| - discharge line temperature | ü Per rack |
| - ambient temperature | ü |
| - phase loss | ü Per rack |
| - oil failure | ü Per compressor |
| - refrigerant leak detection | ü |

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Controller

Utilize a rack controller

- manufacturer

- monitor leak detection

- programming by

Special group notes

ü

ü

ü

ü

ü

CPC

Controller Mfg

Controller to be

MFG CPC

MFG#845-2400

CPC EINSTEIN II Enhanced

Building Controller BX400

Vend # 835-0400

8) Air Handlers (AHU)

40) AHU Zones

48) Lighting Controls

32) Heat/Cool

32) RTU

64) RCB

Surface/Frame or Flush/Panel Mount

Loads

Service valves

- bypass type

Hot gas valve manufacturer (where applicable)

- suction stop valve type

ü

ü

ü

ü

Both

None

Sporlan

CDST

Special Instructions

Drawings

Rack HVAC and Pump Skid componnets on commen frame

Quote Summary

Condenser Specifications

Hillphoenix

A DOVER COMPANY

Adam's Fairacre Farms Inc.

Job Name: Adams Faircare Farms

Address: Nys Route 211

City/State: Middletown, New York USA

Postal Code: 10940

Reference: 127258

Date: 11-Feb-2022

Salesman: Paul Hensley

Applications: Darrin Finney

All items shipped direct from manufacturer to the jobsite location as listed above

SPECIAL: *Dock height*

| Model | | Manufacturer | Motor Voltage | | Control Voltage | | Tag For | | Est. Weight | Overall LWH |
|--------------------|-----------|--------------|---------------|--------------|-----------------|--------------|-----------|---------|-------------|-------------|
| TSDC2-CO2-402-24.8 | | BAC | 460/60/3 | | 208/60/1 | | Rack HVAC | | 8,973 | 227x94x98 |
| Refrigerant | Cond Temp | Requirement | Capacity | Estimated TD | FPI | Connect Size | Fan Count | Fan CFM | Motor RPM | |
| 744 | 88 | 2,237,990 | 1,845,359 | 8.0 | | 1-1/8" | 8 | 89,482 | 1250 | |

Selected Options (*) Denotes Custom

- .. (*) Coil Connections on Opposite Side of Control Panel and Water
- .. (*) Modbus RS485 Communication Card with Alarms (requires coordi
- .. (*) Needed Analog Fan Control Signal plus Alarms (requires spare

Standrd features include:

- Single point electrical connection
- Direct drive VSEC motors
- Whisper Quiet Fans
- State of the art EcoFlex controls
- On-Demand Adiabatic™ Pre-Cooler
- Daily automatic sump clean out
- Manual discrete spray system
- Epoxy coated coil

Special Instructions

Provide CPC air over coil temperature probe.

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Reference: 127258.0

Configuration Name - Configuration

Date: 11-Feb-2022

Description: Overview of Skid Assembly (DSN4FP-7.5-C-4)

Detail: The 4" medium temperature pump station will be located as a stand alone unit and have an integral electrical control panel powered from store or another source. The control panel will include motor starters, relays, controller I/O boards, and additional components as required.

Each pump is installed in parallel and can handle 50% of total flow. The fluid system is designed for a nominal 320 gpm with 35% propylene glycol at 50 feet system head. The system will include air separation device w/automatic air vent, expansion tank, system pressure relief valve, overflow tank w/cover, temperature sensors, pressure transducers installed on the main fluid supply and return lines, vent and drain access fittings, supply and return isolation valves, pump differential pressure switch, and suction guide with integral cleanable strainers.

The skid base assembly frame will be built to accommodate all components as described with integral drain pan(s) and drain connection(s).

Insulation: All fluid pumps, chilled fluid lines and components shall have an insulation thickness of 1".

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Loose Parts Summary

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Reference: 127258

Configuration - Facility Status Display

Date: 11-Feb-2022

| Qty | Model | Part Number | Description |
|-----|-------|-------------|-------------|
| 1 | | 98350 | |

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Loose Parts Summary

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Applications: Darrin Finney

Reference: 127258

Configuration - Job Loose Parts Group

Date: 11-Feb-2022

| Qty | Model | Part Number | Description |
|-----|--------------------|-------------|---|
| 1 | 201-2112 | 92258 | PROBE,DUCT,TEMPERATURE,#201-2112 |
| 2 | 275-0145 | 98536 | CPC,RLDS END OF LINE FILTER,4 PC |
| 2 | 270-4401 | 98540 | CPC,RLDS 1/4in POLY TUBING,250 FT |
| 1 | NDSQ-14 | 86010 | RELAY,BASE,14 PIN,NDSQ-14 |
| 1 | SKMPL-4C-24VAC | 86923 | RELAY,24VAC,14 PIN,SKMPL4C24VAC |
| 1 | 808-2108 | 99588 | RLDS,CO2 LEAK DETECTOR,8 ZONE |
| 4 | HXR-1050-HP | 95461 | HEAT EXCH,SHELL,5/8 IN X3/8 IN,HXR1050HP |
| 1 | 640-0056 | 91115 | TRANS,1P,56VA,MV-P,24V-S,3 BOARD,CPC |
| 1 | 810-3760 | 98706 | RLDS GATEWAY BOARD |
| 46 | #KIP33Q2 | 89076 | VIBRATION ISOLATOR,FIBERGLS #KIP33Q2 |
| 1 | GSKT-600YT-1-1/4 | 102029 | [Rack HVAC] GASKET,STNR,1-1/4,600YSWS |
| 2 | 90-127TK | 104626 | [Rack HVAC] FILTER,COALESCENT,90-127TK,TCOS5-13A/15A |
| 6 | 915128-03 | 96872 | [Rack HVAC] OIL,POE,BSE85K,CO2,1GAL, BITZER |
| 1 | 027H0181 | 94095 | [Rack HVAC] MAGNETIC TOOL FOR MANUAL OPERATIO |
| 4 | MH052 | 05503 | [Rack HVAC] SEALANT,THREAD,PERMABOND,MH052 |
| 4 | 31403 | 01963 | [Rack HVAC] TAPE,HD TEFLON THREAD SEAL 1/2 IN X 520 |
| 2 | 023U1394, 023U1392 | 93764 | [Suction Group 43°] CORE,LIQ,48CU IN,HI WTR,48-DM |
| 8 | 3X6 VIB | 80769 | [Rack Frame HVAC] VIBRATION ISOLATOR,PAD,CORK #3X6 VI |
| 1 | 0467273 | 100219 | [Rack HVAC] FITTING,COUP,THREADED,CS,1/4FNPT |
| 1 | BVMF-4N-PK-S | 107526 | [Rack HVAC] VLV,BALL,CO2,1/4IN FPT X MPT, 3000psig |
| 1 | 423003-131280 | 100532 | [Rack HVAC] FITTING,FLARE,7/16-20UNFX1/4NPT |
| 1 | 04-C-04-SS | 102047 | [Rack HVAC] FITTING,HEX,CAP,7/16-20UNF |
| 1 | GSKT-600YT-1 | 102030 | [Rack HVAC] GASKET,STNR,1,600YSWS |

WARRANTY

Our Reference: 127258
Adams Faircare Farms
Nys Route 211
Middletown, New York USA

Description: Advansor Booster System
Identifier: Rack HVAC

Model: PS_B_CU
Serial:

Voltage: 460/60/3
Refrigerant: R-744

| Suction Group Id | Position | Model | Serial | Warranty Type |
|-------------------|----------|----------------|--------|---------------|
| Suction Group 43° | 1 | 6DTE-50-2NU-00 | TBD | Standard |
| Suction Group 43° | 2 | 4FTC-30-2NU-00 | TBD | Standard |
| Suction Group 43° | 3 | 4FTC-30-2NU-00 | TBD | Standard |
| Suction Group 43° | 4 | 4FTC-30-2NU-00 | TBD | Standard |
| Suction Group 43° | 5 | 4FTC-30-2NU-00 | TBD | Standard |

Hillphoenix ("Seller") warranties the above listed manufactured product to be free from defects in material and workmanship under normal use and maintenance for a period of fourteen (14) months from the date of original shipment. A new or rebuilt part to replace any defective part will be provided without charge, provided the defective part is returned to the manufacturer. The replacement part assumes the unused portion of the warranty and in no way constitutes an extension thereof.

The compressor manufacturer provides a standard one (1) year warranty on the compressor(s) denoted above and they or their representative should be contacted for repair or replacement during that time period. If applicable, where an extended warranty is indicated for an item above, an additional four (4) year replacement warranty will be in effect. This extended warranty period is in addition to the standard one (1) year warranty.

THE SELLER DISCLAIMS ALL WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.

The warranty and extended warranty (if applicable), shall not apply to or cover:

1. Any component or any part thereof which has been subject to accident, alteration, negligence, misuse or abuse, operation on low or improper voltage, or which has not been operated in accordance with the manufacturer's recommendation, or if the serial number of the unit has been altered, defaced or removed.
2. Damages caused by fire, flood, vandalism or other forces of nature.
3. Labor costs for replacement of parts, or for freight, shipping expenses, sales tax or upgrading.
4. Products damaged by improper installation.
5. When installation and startup forms are not properly completed and returned within two (2) weeks after startup.

Purchaser's sole remedy for the Seller's negligence, breach of any warranty, including, if applicable, any implied warranty in tort, and for any other breach of any contractual or tort obligation or duty, is repair or replacement of defective parts by the Seller subject to the terms and conditions stated above, or in the event the Seller fails to repair or replace within a reasonable time, refund of the purchase price by the Seller.

The Seller shall not be liable under any circumstances for any consequential damages, including loss of profits, additional labor cost, loss of refrigerant or food products, or injury to personnel or property caused by defective material or parts or for any delay in its performance hereunder due to causes beyond its control. The foregoing shall constitute the sole and exclusive remedy of any purchaser and sole and exclusive liability of Seller in connection with this product. We neither assume, nor authorize any other person to assume, for us any other liability in connection with or pertaining to our product.

Mail all claims to: Hillphoenix 2016 Gees Mill Road Conyers, GA 30013 USA (770) 285-3100

For technical service contact (800) 518-6630 or fax your request to (770) 285-3070

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