



Non Cycling Refrigerated Dryer

Engineering Data

Date: 12-Jul-10

Revison: 1

| Model Name | D340INA | D420INA | D510INA | D680INA | D850INA |
|-----------------------------------|--|----------|----------|----------|----------|
| Performance Data | | | | | |
| Conditions | Specified In accordance with ISO 7183, Table 2, Option A2 100 PSIG/100° F Inlet/100° F Ambient/100% Relative Humidity | | | | |
| Rated Flow (cfm) | 200 | 250 | 300 | 400 | 500 |
| Pressure Drop (Psig) | 1.60 | 2.00 | 2.00 | 2.90 | 2.90 |
| Condensate Produced (Gal/Hr) | 0.50 | 0.62 | 0.74 | 0.99 | 1.24 |
| Electrical Data | | | | | |
| Installed Package Power (kW) | 1.70 | 1.59 | 2.12 | 3.48 | 3.59 |
| Package Running Load Amps @ 460V | 3.00 | 3.00 | 4.10 | 5.90 | 6.20 |
| Electrical Supply (V/ph/Hz) | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 |
| Minimum Circuit Ampacity | 3.70 | 3.70 | 5.10 | 7.40 | 7.70 |
| Maximum Fuse Size | 6.00 | 6.00 | 8.00 | 12.00 | 12.00 |
| Electrical Protection Class | NEMA 1 | NEMA 1 | NEMA 1 | NEMA 1 | NEMA 1 |
| Weights & Dimensions | | | | | |
| Package Dimensions(in) W | 28 | 28 | 28 | 28 | 42 |
| Package Dimensions(in) D | 33 | 33 | 33 | 33 | 42 |
| Package Dimensions(in) H | 40 | 40 | 40 | 40 | 62 |
| Weight (lbs) | 325 | 340 | 375 | 375 | 950 |
| General Data | | | | | |
| Air Inlet/Outlet Connections (in) | 1.5 | 1.5 | 2 | 2 | 3 |
| Air Connection Type | MPT | MPT | MPT | MPT | MPT |
| Condenser Airflow (cfm) | 1,200 | 1,200 | 1,200 | 1,200 | 1,800 |
| Heat Rejection (Btu/hr) | 12,356 | 12,790 | 15,169 | 25,608 | 25,608 |
| Max Operating Ambient Temp (°F) | 120 | 120 | 120 | 120 | 120 |
| Max Operating Inlet Air Temp (°F) | 120 | 120 | 120 | 120 | 120 |
| Min Operating Ambient Temp (°F) | 50 | 50 | 50 | 50 | 50 |
| Max Operating Pressure (Psig) | 300 | 300 | 300 | 300 | 300 |
| Sound Level (dBA) | <85 | <85 | <85 | <85 | <85 |
| Condensate Drain Connection | 1/4" NPT | 1/4" NPT | 1/4" NPT | 1/4" NPT | 1/4" NPT |
| Refrigerant Type | R404A | R404A | R404A | R404A | R404A |
| Refrigerant Charge (lb-oz) | 3-0 | 3-8 | 4-0 | 4-0 | 7-8 |

Product improvement is an ongoing process at IR. Data is subject to change without notice.



Non Cycling Refrigerated Dryer

Engineering Data

Date: 12-Jul-10

Revision: 1

| Model Name | D1020INA | D1190INA | D1360INA | D1700INA |
|--|----------|----------|----------|----------|
| Performance Data | | | | |
| Specified In accordance with ISO 7183, Table 2, Option A2 100 PSIG/100° F Inlet/100° F Ambient/100% Relative Humidity | | | | |
| Conditions | | | | |
| Rated Flow (cfm) | 600 | 700 | 800 | 1000 |
| Pressure Drop (Psig) | 3.00 | 2.70 | 3.00 | 2.40 |
| Condensate Produced (Gal/Hr) | 1.49 | 1.73 | 1.98 | 2.48 |
| Electrical Data | | | | |
| Installed Package Power (kW) | 4.50 | 5.38 | 5.60 | 6.50 |
| Package Running Load Amps @ 460V | 7.20 | 7.90 | 7.60 | 9.55 |
| Electrical Supply (V/ph/Hz) | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 |
| Minimum Circuit Ampacity | 8.90 | 10.60 | 10.20 | 13.20 |
| Maximum Fuse Size | 15.00 | 15.00 | 15.00 | 20.00 |
| Electrical Protection Class | NEMA 1 | NEMA 1 | NEMA 1 | NEMA 1 |
| Weights & Dimensions | | | | |
| Package Dimensions(in) W | 42 | 42 | 42 | 32 |
| Package Dimensions(in) D | 42 | 42 | 42 | 76 |
| Package Dimensions(in) H | 62 | 62 | 62 | 69 |
| Weight (lbs) | 950 | 1050 | 1050 | 1700 |
| General Data | | | | |
| Air Inlet/Outlet Connections (in) | 3 | 3 | 3 | 4 |
| Air Connection Type | MPT | MPT | MPT | FLG |
| Condenser Airflow (cfm) | 1,800 | 3,600 | 3,100 | 3,800 |
| Heat Rejection (Btu/hr) | 32,693 | 36,394 | 41,210 | 58,839 |
| Max Operating Ambient Temp (°F) | 120 | 120 | 120 | 120 |
| Max Operating Inlet Air Temp (°F) | 120 | 120 | 120 | 120 |
| Min Operating Ambient Temp (°F) | 50 | 50 | 50 | 50 |
| Max Operating Pressure (Psig) | 300 | 300 | 300 | 300 |
| Sound Level (dBA) | <85 | <85 | <85 | <85 |
| Condensate Drain Connection | 1/4" NPT | 1/4" NPT | 1/4" NPT | 1/4" NPT |
| Refrigerant Type | R404A | R404A | R404A | R404A |
| Refrigerant Charge (lb-oz) | 8-0 | 6-8 | 8-0 | 16-0 |

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Non Cycling Refrigerated Dryer

Engineering Data

Date: 12-Jul-10

Revision: 1

| Model Name | D2040INA | D2720INA | D3400INA | D4080INA |
|-----------------------------------|--|----------|----------|----------|
| Performance Data | | | | |
| Conditions | Specified In accordance with ISO 7183, Table 2, Option A2 100 PSIG/100° F Inlet/100° F Ambient/100% Relative Humidity | | | |
| Rated Flow (cfm) | 1200 | 1600 | 2000 | 2400 |
| Pressure Drop (Psig) | 3.10 | 3.30 | 3.50 | 4.80 |
| Condensate Produced (Gal/Hr) | 2.97 | 3.96 | 4.95 | 5.95 |
| Electrical Data | | | | |
| Installed Package Power (kW) | 9.50 | 11.30 | 13.80 | 16.20 |
| Package Running Load Amps @ 460V | 13.75 | 17.30 | 20.60 | 22.80 |
| Electrical Supply (V/ph/Hz) | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 |
| Minimum Circuit Ampacity | 19.10 | 23.10 | 27.20 | 29.80 |
| Maximum Fuse Size | 30.00 | 35.00 | 45.00 | 50.00 |
| Electrical Protection Class | NEMA 1 | NEMA 1 | NEMA 1 | NEMA 1 |
| Weights & Dimensions | | | | |
| Package Dimensions(in) W | 32 | 32 | 36 | 36 |
| Package Dimensions(in) D | 76 | 76 | 91 | 91 |
| Package Dimensions(in) H | 69 | 69 | 91 | 91 |
| Weight (lbs) | 1725 | 1800 | 2450 | 2500 |
| General Data | | | | |
| Air Inlet/Outlet Connections (in) | 4 | 4 | 6 | 6 |
| Air Connection Type | FLG | FLG | FLG | FLG |
| Condenser Airflow (cfm) | 5,200 | 5,800 | 6,450 | 6,450 |
| Heat Rejection (Btu/hr) | 86,021 | 103,903 | 124,125 | 120,416 |
| Max Operating Ambient Temp (°F) | 120 | 120 | 120 | 120 |
| Max Operating Inlet Air Temp (°F) | 120 | 120 | 120 | 120 |
| Min Operating Ambient Temp (°F) | 50 | 50 | 50 | 50 |
| Max Operating Pressure (Psig) | 220 | 220 | 220 | 220 |
| Sound Level (dBA) | <85 | <85 | <85 | <85 |
| Condensate Drain Connection | 1/4" NPT | 1/4" NPT | 1/4" NPT | 1/4" NPT |
| Refrigerant Type | R404A | R404A | R404A | R404A |
| Refrigerant Charge (lb-oz) | 18-0 | 22-0 | 24-0 | 24-0 |

Product improvement is an ongoing process at IR. Data is subject to change without notice.



Non Cycling Refrigerated Dryer

Engineering Data

Date: 12-Jul-10

Revision: 0

| Model Name | D5525INA | D6800INA | D8160INA | D10200INA | D13600INA |
|-----------------------------------|--|----------|----------|-----------|-----------|
| Performance Data | | | | | |
| Conditions | Specified In accordance with ISO 7183, Table 2, Option A2 100 PSIG/100° F Inlet/100° F Ambient/100% Relative Humidity | | | | |
| Rated Flow (cfm) | 3250 | 4000 | 4800 | 6000 | 8000 |
| Pressure Drop (Psig) | 3.40 | 3.50 | 4.80 | 3.50 | 3.50 |
| Condensate Produced (Gal/Hr) | 7.98 | 9.90 | 11.90 | 14.85 | 19.80 |
| Electrical Data | | | | | |
| Installed Package Power (kW) | 22.60 | 27.60 | 32.40 | 41.40 | 55.20 |
| Package Running Load Amps @ 460V | 41.00 | 44.00 | 48.40 | 66.00 | 88.00 |
| Electrical Supply (V/ph/Hz) | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 |
| Minimum Circuit Ampacity | 41.70 | 49.60 | 54.60 | 71.90 | 94.30 |
| Maximum Fuse Size | 50.00 | 60.00 | 75.00 | 90.00 | 110.00 |
| Electrical Protection Class | NEMA 1 | NEMA 1 | NEMA 1 | NEMA 1 | NEMA 1 |
| Weights & Dimensions | | | | | |
| Package Dimensions(in) W | 77 | 77 | 77 | 110 | 141 |
| Package Dimensions(in) D | 92 | 92 | 92 | 92 | 92 |
| Package Dimensions(in) H | 100 | 100 | 100 | 101 | 102 |
| Weight (lbs) | 4800 | 5000 | 5500 | 7500 | 9000 |
| General Data | | | | | |
| Air Inlet/Outlet Connections (in) | 8 | 8 | 8 | 10 | 12 |
| Air Connection Type | FLG | FLG | FLG | FLG | FLG |
| Condenser Airflow (cfm) | 13,300 | 12,900 | 12,900 | 19,350 | 25,800 |
| Heat Rejection (Btu/hr) | 211,052 | 248,250 | 280,034 | 372,375 | 496,500 |
| Max Operating Ambient Temp (°F) | 120 | 120 | 120 | 120 | 120 |
| Max Operating Inlet Air Temp (°F) | 120 | 120 | 120 | 120 | 120 |
| Min Operating Ambient Temp (°F) | 50 | 50 | 50 | 50 | 50 |
| Max Operating Pressure (Psig) | 220 | 220 | 220 | 220 | 220 |
| Sound Level (dBA) | <85 | <85 | <85 | <85 | <85 |
| Condensate Drain Connection | 1/4" NPT | 1/4" NPT | 1/4" NPT | 1/4" NPT | 1/4" NPT |
| Refrigerant Type | R404A | R404A | R404A | R404A | R404A |
| Refrigerant Charge (lb-oz) | 44-0 | 48-0 | 48-0 | 72-0 | 96-0 |

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Non Cycling Refrigerated Dryer

Engineering Data

Date: 9-Aug-11

Revision: 0

| Model Name | D5525INW | D6800INW | D8160INW | D10200INW | D13600INW |
|--|----------|----------|----------|-----------|-----------|
| Performance Data | | | | | |
| Specified In accordance with ISO 7183, Table 2, Option A2 100 PSIG/100° F Inlet/100° F Ambient/100% Relative Humidity | | | | | |
| Conditions | | | | | |
| Rated Flow (cfm) | 3250 | 4000 | 4800 | 6000 | 8000 |
| Pressure Drop (Psig) | 3.40 | 3.50 | 4.80 | 3.50 | 3.50 |
| Condensate Produced (Gal/Hr) | 7.98 | 9.90 | 11.90 | 14.85 | 19.80 |
| Electrical Data | | | | | |
| Installed Package Power (kW) | 15.40 | 18.00 | 23.40 | 27.00 | 36.00 |
| Electrical Supply (V/ph/Hz) | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 | 460/3/60 |
| Minimum Circuit Ampacity | 29.60 | 36.10 | 44.20 | 52.20 | 68.20 |
| Maximum Fuse Size | 40.00 | 50.00 | 60.00 | 60.00 | 80.00 |
| Electrical Protection Class | NEMA 1 | NEMA 1 | NEMA 1 | NEMA 1 | NEMA 1 |
| Weights & Dimensions | | | | | |
| Package Dimensions(in) W | 77 | 77 | 77 | 110 | 141 |
| Package Dimensions(in) D | 92 | 92 | 92 | 92 | 92 |
| Package Dimensions(in) H | 100 | 100 | 100 | 101 | 102 |
| Weight (lbs) | 3925 | 4200 | 4260 | 6450 | 8600 |
| General Data | | | | | |
| Air Inlet/Outlet Connections (in) | 8 | 8 | 8 | 10 | 12 |
| Air Connection Type | FLG | FLG | FLG | FLG | FLG |
| Condenser Airflow (cfm) | N/A | N/A | N/A | N/A | N/A |
| Heat Rejection (Btu/hr) | 0 | 0 | 0 | 0 | 0 |
| Max Operating Ambient Temp (°F) | 120 | 120 | 120 | 120 | 120 |
| Max Operating Inlet Air Temp (°F) | 120 | 120 | 120 | 120 | 120 |
| Min Operating Ambient Temp (°F) | 50 | 50 | 50 | 50 | 50 |
| Max Operating Pressure (Psig) | 220 | 220 | 220 | 220 | 220 |
| Sound Level (dBA) | <75 | <75 | <75 | <75 | <75 |
| Condensate Drain Connection | 1/4" NPT | 1/4" NPT | 1/4" NPT | 1/4" NPT | 1/4" NPT |
| Refrigerant Type | R404A | R404A | R404A | R404A | R404A |
| Refrigerant Charge (lb-oz) | 36-0 | 44-0 | 48-0 | 66-0 | 88-0 |
| Water Cooled Data (Minimum Water Pressure 30 psig) | | | | | |
| Water Flow (GPM) | 40 | 56 | 56 | 84 | 112 |
| Water Pressure Drop (psig) | 25-35 | 25-35 | 25-35 | 25-35 | 25-35 |
| Design Inlet Cooling Water Temperature (°F) | 85 | 85 | 85 | 85 | 85 |
| Max/Min Inlet Cooling Water Temperature (°F) | 85 / 55 | 85 / 55 | 85 / 55 | 85 / 55 | 85 / 55 |
| Condensing Temperature (°F) | 105 | 105 | 105 | 105 | 105 |
| Inlet/Outlet Water Connection | 1 1/2" | 1 1/2" | 1 1/2" | 2" | 2 1/2" |

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