



REFRIGERATED DRYERS 7-2000 SCFM
MODULAR DESICCANT DRYERS 3-177 SCFM | FILTRATION

Air Treatment



Air Treatment Portfolio

DV Systems enhanced air treatment portfolio delivers the perfect balance between sustainable performance, technology and simplicity offering stable ISO 8573-1 Air Quality for the most demanding of compressed air systems.



DVN Series

- Non-Cycling Refrigerated Dryer
- 7-1200 SCFM
- ISO8573-1 Class 5-6 pressure dew point

DVE Series

- Energy Savings Refrigerated Dryer
- 75-2000 SCFM
- ISO8573-1 Class 4-5 pressure dew point

DVH Series

- High Temperature Refrigerated Dryer
- 10-100 SCFM
- ISO8573-1 Class 4-5 pressure dew point

DVMLA Series

- Modular Heatless Desiccant Dryer
- 3-177 SCFM
- ISO8573-1 Class 1-2 pressure dew point

DVF Series

- High Efficiency Filtration Available in 5 Grades
- 20-21,250 SCFM
- ISO8573-1 Class 1-5

ISO 8573.1 Quality Classes

ISO 8573.1 was developed in 1992 by ISO (International Organization for Standardization) to help plant engineers specify desired compressed air quality globally by providing “Quality Classes” for solid particulates, humidity and oil. Quality classes provide engineers with an internationally accepted unit of measure. A typical pharmaceutical plant, for example, would have a compressed air specification of ISO Quality Classes 1.2.1. This is equivalent to 0.1 micron solid contaminants, -40°F (-40°C) dew point, and 0.008 ppm (0.01 mg/m³) oil content filtration.

No matter what language is spoken and what unit of measure is used, using ISO 8573.1 Air Quality Classes ensures that your factory will get the compressed air quality you specified.



| QUALITY CLASSES | SOLID CONTAMINANTS (MAX. PARTICLE SIZE) | MAXIMUM PRESSURE DEW POINTS | | MAXIMUM OIL CONTENT (DROPLETS, AEROSOLS, VAPOR) | |
|-----------------|---|-----------------------------|-----|---|-----------------------|
| | MICRONS | °F | °C | PPM W/W | PPM MG/M ³ |
| 1 | 0.1 | -94 | -70 | 0.008 | 0.01 |
| 2 | 1 | -40 | -40 | 0.08 | 0.1 |
| 3 | 5 | -4 | -20 | 0.8 | 1 |
| 4 | 15 | 38 | 3 | 4 | 5 |
| 5 | 40 | 45 | 7 | 21 | 25 |
| 6 | - | 50 | 10 | - | - |





DVN Series Refrigerated Global Design

DVN Series refrigerated air dryers offer the perfect balance between technology and simplicity to dry compressed air systems to a stable ISO 8573-1 Air Quality, Class 5 pressure dew point.



Copper "Tube-on-Tube"
Heat Exchanger

Design Features

DVN 7-15 SCFM

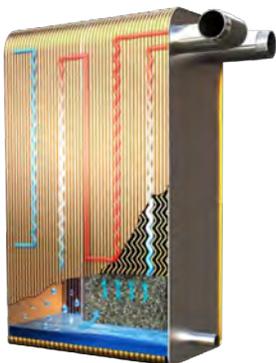
- Smooth bore, copper tube-on-tube heat exchangers
- Centrifugal separator efficiently captures condensate
- Static condenser design provides trouble free, quiet operation
- Electronic drain valve

DVN 25-50 SCFM

- Microprocessor Controller, with alarm display and record history
- Compact three-in-one heat exchanger
- Electronic drain valve with controller test capabilities
- Sustainable R513a refrigerant

DVN 75-1200 SCFM

- Stainless steel, cross flow heat exchangers optimize heat transfer and service life
- Compact design saves floor space
- Stainless steel inlet/outlet connections to prevent corrosion
- Timed electric condensate drain
- Integral demister/separator

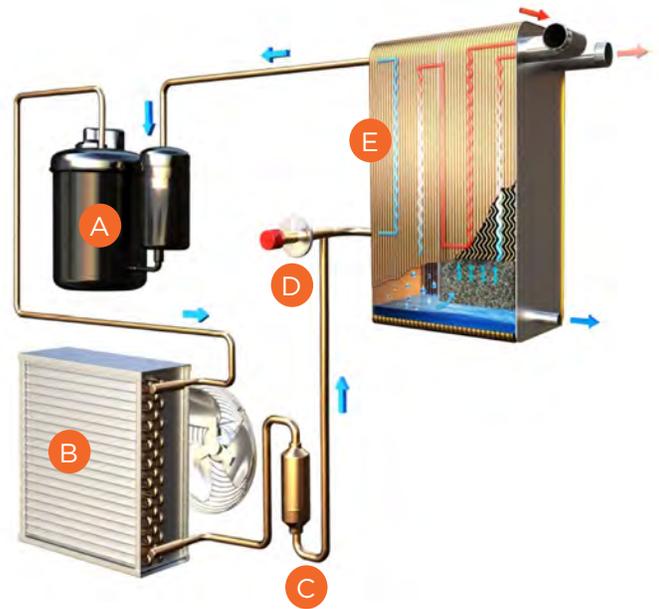


Stainless Steel Demister/Separator

How it Works

Refrigeration Circuit

A hermetically sealed refrigerant compressor (A) takes in evaporated refrigerant and compresses it to a higher pressure. The air cooled condenser (B) turns the high pressure gas into a high pressure refrigerant. An in-line filter dryer (C) removes contaminants from the high pressure refrigerant gas. A constant pressure valve (D) reduces the pressure and regulates the flow of refrigerant into the heat exchanger (E).

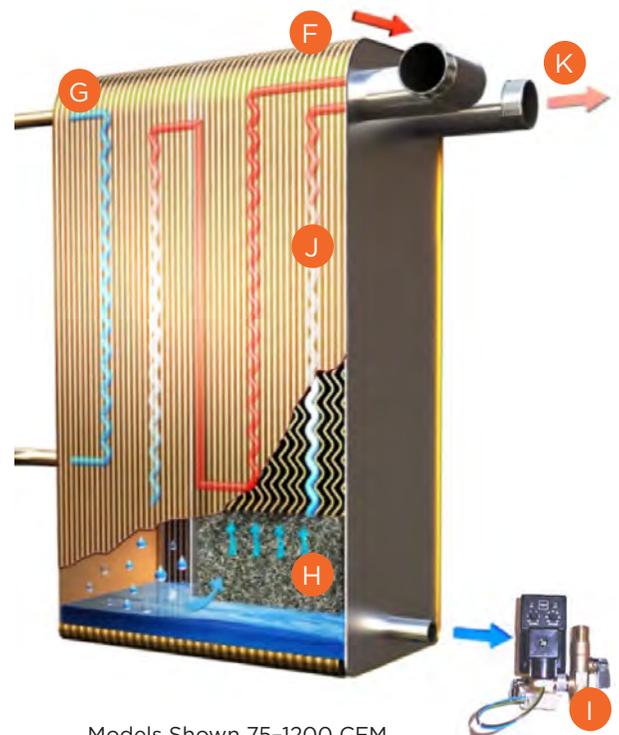


Models Shown 75-1200 CFM

Refrigerant is continuously circulated through the system

Air Circuit

Warm, saturated compressed air enters the air to air heat exchanger (F) and is cooled by the exiting air. The precooled air (G) then enters the air to refrigerant heat exchangers and is further chilled causing water vapor to condense. Condensed moisture is collected from the air stream by an integral separator (H) with stainless steel demister. Liquid condensate is removed from the separator by a (I) high performance drain. Cold air is then reheated in the air-to-air heat exchanger (J) to eliminate pipe line sweat. Clean dry air exits (K) the dryer and is now conditioned for use.



Models Shown 75-1200 CFM

Value at its Best

Efficient Condensate Management

- Increased calming zone and integral demister/separator captures liquid condensate and solid particles
 - Effectively removes condensate from 0-100% flow conditions without moisture carry-over
- Furnished with condensate drain
 - Electronic or timed electric (dependent on scfm range)

Safety First - Environmentally Friendly

- Models 7-50 scfm CFC free R513A refrigerant
- Models 75-1200 scfm R513A & R407C refrigerant
- CSA approved



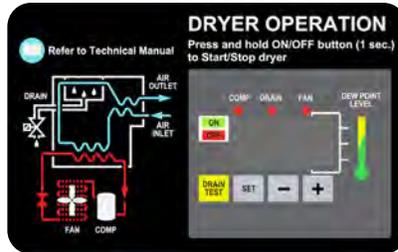
- 1 Fan motor and blade assembly
- 2 Rugged, epoxy coated cabinet
- 3 Timed electric drain
- 4 Controls—models shown are 200-500 scfm
- 5 Stainless steel heat exchanger with integral demister separator
- 6 Refrigerant compressor
- 7 Constant expansion valve
- 8 Air-cooled condenser core

Take Control



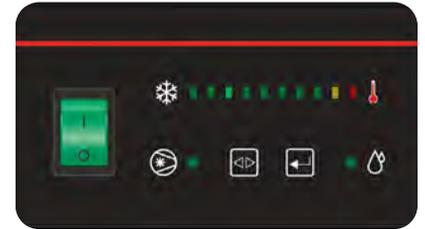
Models 10-150 SCFM

- Illuminated on/off switch
- Dew point temperature display to monitor inlet load conditions



Models 25-50 SCFM

- LED Indicator for refrigerant compressor, drain, and fan power
- Drain Test Button
- Alarm Display & History Record



Models 200-1200 SCFM

- Illuminated on/off switch
- LED dew point temperature display
- EDV control
- Dry alarm contact
- Equipped with panel mounted drain timer control



DVN SERIES PRODUCT SPECIFICATIONS

| MODEL | INLET FLOW | | PRESSURE DROP PSI | VOLTAGE | DIMENSIONS HEIGHT × WIDTH × DEPTH | | REFRIG- ERANT | IN/OUT CONNECTIONS NPT | POWER CONSUMPTION KW | WEIGHT LBS |
|-------------------|------------|--------------------|----------------------|----------|--------------------------------------|-------------------|------------------|------------------------------|----------------------------|---------------|
| | SCFM | NM ³ /H | | | IN | MM | | | | |
| DVNA7A100 | 7 | 11.9 | 3.5 | 115/1/60 | 15.3 × 12.6 × 12.6 | 389 × 320 × 320 | R513A | 3/8" MNPT | 0.15 | 45 |
| DVNA11A100 | 11 | 18.7 | 6.0 | 115/1/60 | 15.3 × 12.6 × 12.6 | 389 × 320 × 320 | R513A | 3/8" MNPT | 0.16 | 45 |
| DVNA15A100 | 15 | 25.5 | 8.5 | 115/1/60 | 15.3 × 12.6 × 12.6 | 389 × 320 × 320 | R513A | 3/8" MNPT | 0.16 | 45 |
| DVNA25A100 | 25 | 42.5 | 0.5 | 115/1/60 | 17.5 × 15.4 × 16.9 | 445 × 392 × 430 | R513A | 1/2" FNPT | 0.27 | 58 |
| DVNA32A100 | 32 | 54.4 | 0.6 | 115/1/60 | 17.5 × 15.4 × 16.9 | 445 × 392 × 430 | R513A | 1/2" FNPT | 0.27 | 58 |
| DVNA42A100 | 42 | 71.4 | 1.0 | 115/1/60 | 17.5 × 15.4 × 16.9 | 445 × 392 × 430 | R513A | 1/2" FNPT | 0.51 | 69 |
| DVNA50A100 | 50 | 85 | 1.3 | 115/1/60 | 17.5 × 15.4 × 16.9 | 445 × 392 × 430 | R513A | 1/2" FNPT | 0.52 | 69 |
| DVN75 | 75 | 120 | 2.94 | 115/1/60 | 24.3 × 15.2 × 19.7 | 618 × 387 × 501 | R513A | 3/4" FPT | 0.66 | 94 |
| DVN100 | 100 | 160 | 3.5 | 115/1/60 | 24.3 × 15.2 × 19.7 | 618 × 387 × 501 | R513A | 3/4" FPT | 0.85 | 99 |
| DVN150 | 150 | 240 | 3.2 | 115/1/60 | 37.5 × 19.7 × 30.3 | 953 × 501 × 770 | R513A | 1 1/2" FPT | 0.88 | 154 |
| DVN200A4 | 200 | 340 | 2.6 | 460/3/60 | 30 × 20 × 37 | 762 × 493 × 932 | R 134a | 1 1/2" | 1.42 | 183 |
| DVN250A4 | 250 | 424 | 2.8 | 460/3/60 | 30 × 20 × 37 | 762 × 493 × 932 | R 134a | 1 1/2" | 1.98 | 211 |
| DVN300A4 | 300 | 509 | 3.1 | 460/3/60 | 32 × 20 × 44 | 812 × 493 × 1112 | R 134a | 1 1/2" | 2.05 | 219 |
| DVN400A4 | 400 | 680 | 2.5 | 460/3/60 | 30 × 21 × 38 | 762 × 787 × 965 | R 134a | 2" | 2.5 | 232 |
| DVN500A4 | 500 | 849 | 3.0 | 460/3/60 | 32 × 22 × 48 | 812 × 558 × 1218 | R 407c | 2" | 3.18 | 328 |
| DVN600A4 | 600 | 1019 | 3.7 | 460/3/60 | 32 × 22 × 50 | 812 × 558 × 1270 | R 407c | 2" | 3.8 | 353 |
| DVN600W4 | 600 | 1019 | 3.7 | 460/3/60 | 32 × 22 × 50 | 812 × 558 × 1270 | R 407c | 2" | 3.8 | 353 |
| DVN800A4 | 800 | 1359 | 2.8 | 460/3/60 | 59 × 30 × 42 | 1450 × 762 × 1067 | R 407c | 3" FLG | 5.4 | 687 |
| DVN800W4 | 800 | 1359 | 2.8 | 460/3/60 | 59 × 30 × 42 | 1450 × 762 × 1067 | R 407c | 3" FLG | 5.4 | 687 |
| DVN1000A4 | 1000 | 1699 | 2.9 | 460/3/60 | 64 × 29 × 45 | 1626 × 737 × 1143 | R 407c | 4" FLG | 6.6 | 786 |
| DVN1000W4 | 1000 | 1699 | 2.9 | 460/3/60 | 64 × 29 × 45 | 1626 × 737 × 1143 | R 407c | 4" FLG | 6.6 | 786 |
| DVN1200A4 | 1200 | 2038 | 3.9 | 460/3/60 | 64 × 29 × 45 | 1626 × 737 × 1143 | R 407c | 4" FLG | 8.66 | 810 |
| DVN1200W4 | 1200 | 2038 | 3.9 | 460/3/60 | 64 × 29 × 45 | 1626 × 737 × 1143 | R 407c | 4" FLG | 8.66 | 810 |

Maximum Inlet Air Temperature: 120°F (49°C) Maximum Operating Pressure: 250 psig (Models DVN25-50), 232 psig (Models DVN75-500).
Above conditions tested at 100°F inlet air temperature, 100% saturated inlet air, 100 psig operating pressure and 100°F ambient air temperature.

*Premium
Warranty*

2 Years—Standard
3 Years—Extended
5 Years—Total

Parts and
labor included.
Contact your
local distributor
for more details.

OPERATING CONDITIONS

| MODEL SCFM | MAX INLET AIR PRESSURE | | MIN INLET AIR PRESSURE | | MAX INLET AIR TEMPERATURE | | MIN INLET AIR TEMPERATURE | | MAX AMBIENT AIR TEMPERATURE | | MIN AMBIENT AIR TEMPERATURE | |
|---------------|------------------------|------|------------------------|------|---------------------------|----|---------------------------|----|-----------------------------|----|-----------------------------|----|
| | PSIG | BARG | PSIG | BARG | °F | °C | °F | °C | °F | °C | °F | °C |
| 5-10 to 50 | 250 | 17 | 30 | 2 | 120 | 49 | 40 | 4 | 110 | 43 | 45 | 7 |
| 75-500 | 232 | 16 | 10 | 1 | 120 | 49 | 40 | 4 | 110 | 43 | 45 | 7 |
| 600-1200 | 232 | 16 | 43 | 3 | 120 | 49 | 45 | 7 | 110 | 43 | 34 | 1 |

CAPACITY CORRECTION FACTORS

| INLET AIR PRESSURE | | INLET AIR TEMPERATURE | | | |
|--------------------|------|-----------------------|------------|------------|------------|
| PSIG | BARG | 90°F/32°C | 100°F/38°C | 110°F/43°C | 120°F/49°C |
| 80 | 5.6 | 1.19 | 0.95 | 0.77 | 0.63 |
| 100 | 6.9 | 1.25 | 1 | 0.82 | 0.68 |
| 125 | 8.6 | 1.3 | 1.05 | 0.86 | 0.72 |
| 150 | 10.3 | 1.34 | 1.08 | 0.9 | 0.75 |
| 175 | 12.1 | 1.37 | 1.11 | 0.92 | 0.78 |
| 200 | 13.8 | 1.39 | 1.14 | 0.95 | 0.8 |
| 250 | 17.2 | 1.43 | 1.17 | 0.98 | 0.83 |

| AMBIENT AIR TEMPERATURE | 80°F/27°C | 90°F/32°C | 100°F/38°C | 110°F/43°C |
|-------------------------|-----------|-----------|------------|------------|
| MULTIPLIER | 1.12 | 1.06 | 1 | 0.94 |

To adjust the dryer capacity for non-standard conditions, use the Capacity Correction Factors (multipliers) from the tables below. **Sizing Example:** What is the capacity of an DVN100 at 100°F inlet air temperature, 150 psig working pressure and 110°F ambient air temperature? **Answer:** 100 scfm (rated flow from DVN specifications table) × 1.08 (correction factor for inlet air temperature, table 1) × 0.94 (correction factor for ambient air temperature, table 2) = 102 scfm





Sustainable Energy Saving Solutions

DV Systems is a place where innovation is constant and the real-world needs of our customers are understood. We transform market-inspired ideas into actioned solutions enabling our global customers to meet their sustainability goals and thrive in a complex, ever-changing marketplace.

Utilizing the latest advancements in heat transfer technology, DVE Series refrigerated dryers offer an innovative approach to efficiently remove liquid contamination from compressed air.

The DVE Series with Standard Energy Saving System

The ESS (Energy Saving System) is capable of transferring heat energy through a change of state. During the thermal change process, the media's temperature remains constant—known as latent heat transfer. Latent heat transfer occurs when the media changes from a solid to liquid or a liquid to solid. The state of the media is monitored by a temperature probe that automatically engages the refrigeration compressor to power on or off according to varying inlet load profiles. Because the ESS is capable of storing and releasing heat energy without a change in temperature, the refrigerant compressor cycles less frequently and saves energy.

The dryer requires fewer components than conventional cycling designs and does not require a cooling media circulation pump, storage tank and glycol to refrigerant heat exchanger. All cooling is accomplished in the 3-in-1 heat exchanger.

The media within the ESS is non-toxic, does not require replacement and maintains its thermal properties regardless of age. In the frozen state the media will not thermally expand, maintaining the long-term integrity of the heat exchanger assembly.

Energy Saving Sustainability

The DVE Series lowers air system power costs and improves productivity by matching power consumption to compressed air demand.

In a typical manufacturing facility, up to 30% of electricity consumed is for generating and treating compressed air. To reduce total cost of operation and qualify for utility company incentive programs, proper air treatment equipment selection and application is required.

Load Matching Performance

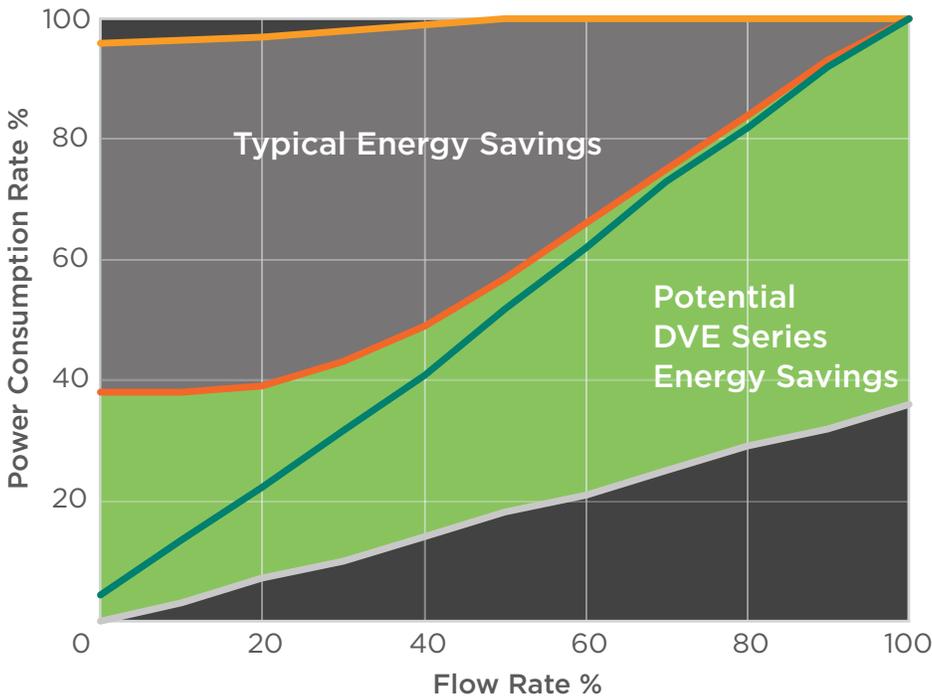
Compressed air load profiles in most manufacturing facilities fluctuate. The DVE Series provides cost-effective energy savings by matching electrical power consumed in direct proportion to air demand. Linear load matching is achieved from 0% up to 100% demand.

Non-cycling dryers operate with the refrigeration compressor running continuously, regardless of inlet load conditions. Minimal energy savings are realized from 100% down to 0% inlet air load.

Linear Energy Savings

DVE Series dryers automatically power (on/off) the refrigeration compressor in response to inlet load conditions. As the inlet air load is reduced, the power requirement to dry the air is matched in proportion to the demand. For example, at 60% inlet air load, a non-cycling dryer consumes 96% of the full load power consumption, a 4% energy savings. By comparison, at 60% inlet air load, the DVE Series consumes only 60% of the full load power, a 40% energy savings.

ENERGY SAVINGS COMPARISON



- Non Cycling
- Variable Speed
- DVE Series
- DVE Series at 60°F (15°C)*

Dryers are rated in accordance to ISO 7183 standard rating conditions A2. (38°C/100°F ambient)

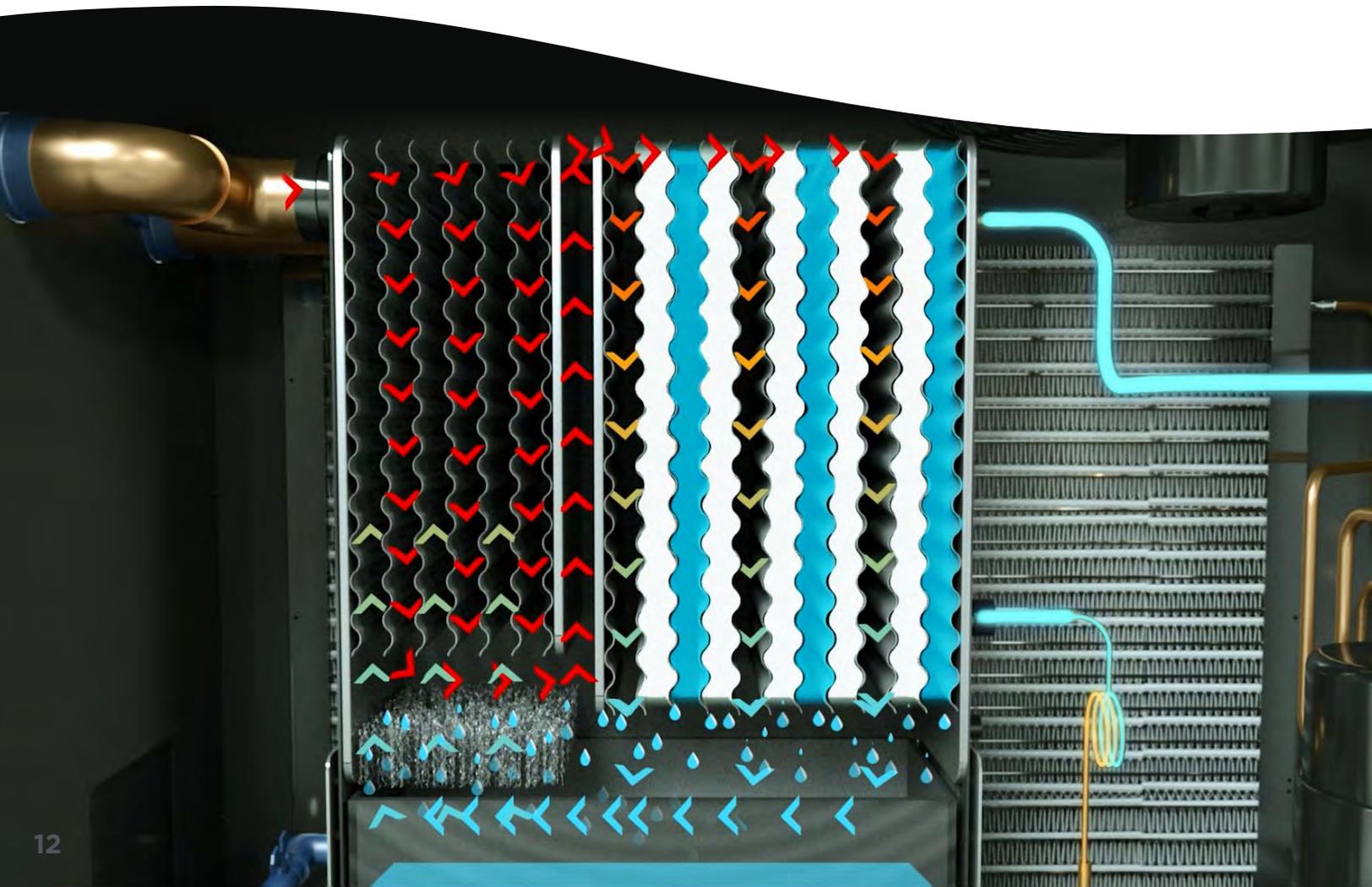
*DVE Series also shown at an ambient temperature of 60°F (15°C)

NOTE:
The power consumption data set forth above for non cycling dryers and variable speed dryers was obtained from an article titled "Cycling Refrigerated Dryers—Are Savings Significant?" published in Compressed Air Best Practices in November 2011. The power consumption data set forth above for the DVE Series dryer is based on laboratory testing performed on a DVE100 model dryer. We expect that power consumption data between non cycling, variable speed and the DVE Series dryer would be consistent regardless of the size of the dryer.

DVE SERIES

How It Works

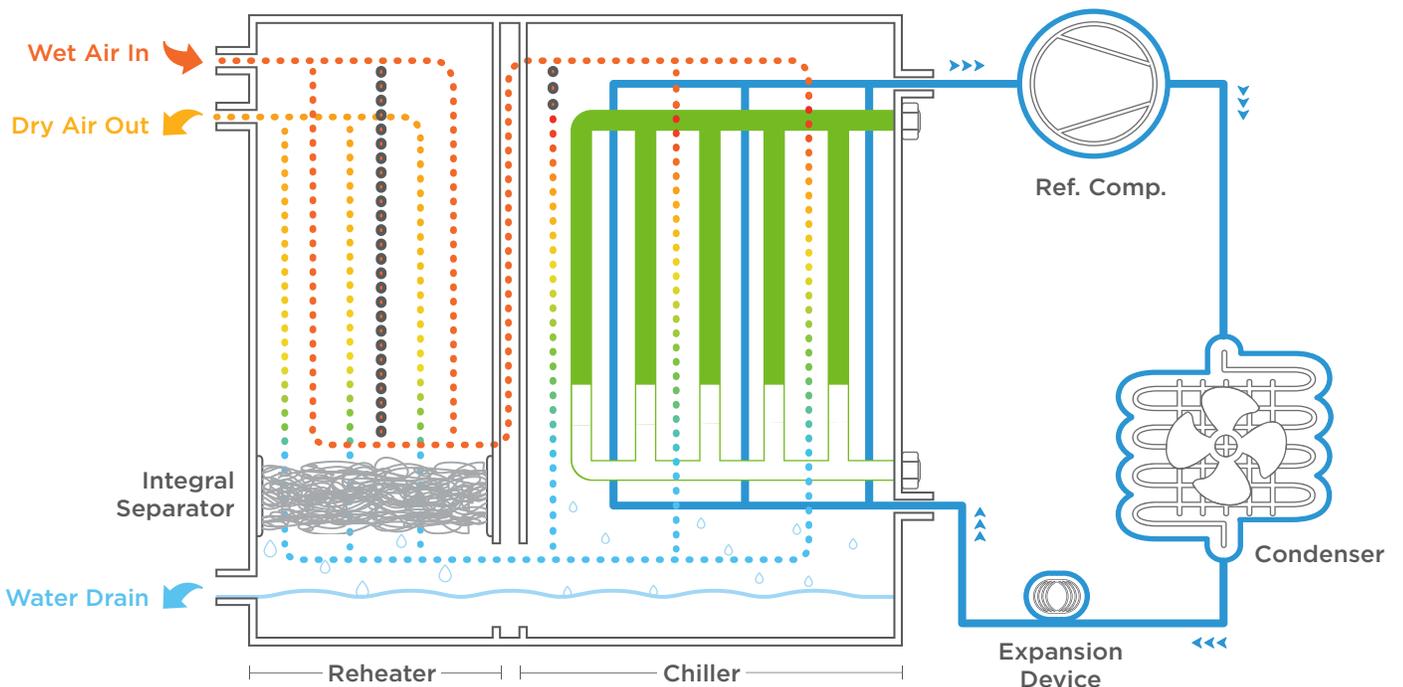
- 1** The DVE Series utilizes an ESS that allows for heat to transfer medium between the refrigeration and compressed air circuits that serves as a reservoir for thermal storage.
- 2** The thermal reservoir is comprised of a patent-pending heat exchanger filled with a media that efficiently transfers heat energy through a “change of state”.
 - Thermal Change: changing from liquid to solid back to liquid in a continuous cycle.
- 3** The refrigeration circuit operates to cool down the medium until it forms into a solid at which time the refrigeration system powers off.
 - Thermal Change: changing from liquid to solid back to liquid in a continuous cycle.



4 As the compressed air enters the ESS, the media absorbs heat from the airstream and begins to melt the media at a constant temperature.

5 When most of the media has turned to liquid the refrigeration system powers on to again cool down the media turning it back into a solid.

6 This process repeats as required to meet the corresponding compressed air load on the DVE Series dryer.



Better by Design

DVE Energy Saving Series 75-2000 scfm

The DVE Series is the ideal solution to reliably and economically dry compressed air. The innovative technology does not require a recirculating pump and associated piping. This results in a simpler, more energy efficient design.

- 1 Stainless steel brazed plate 3-in-1 heat exchanger (patent-pending), with Energy Saving System
 - The ESS thermal reservoir operates at a precise temperature to deliver a stable pressure dew point
 - Smooth, non-fouling stainless steel surfaces promote low resistance to flow, optimizing air system efficiency
- 2 No-air-loss, demand drain efficiently removes condensate without loss of compressed air
 - Condensate drain lines terminate at discharge connections conveniently located on the side of the dryer
 - Failure-to-discharge alarm on the operator interface enhances system reliability
- 3 High-efficiency, up-flow aluminum air-cooled condenser
 - Pulls ambient air through the condenser and releases out the top of the dryer condenser
 - Provides cooler condensing air and greater efficiency
- 4 Reliable, semi-hermetic refrigerant compressor
 - Environmentally-friendly, globally-accepted refrigerants
 - Rugged design, for long-term operation
- 5 Controller with LCD display provides ease-of-monitoring and operating status
 - DVE75 & DVE100
 - Energy savings (%), dryer operating time, refrigeration compressor operating time, active fault message and dew point status
 - DVE150 to DVE2000
 - Energy saving (%), dryer operating time, refrigeration compressor operating time, active fault message and dew point status
 - USB connection port to download operating data and upgrade firmware
 - Remote monitoring capability - RS485 communications port



Simple
Reliable
Energy Efficient





Premium Warranty

2 Years—Standard

3 Years—Extended

5 Years—Total

Parts and labor included.
Contact your local distributor for more details.

DVE SERIES PRODUCT SPECIFICATIONS

| DRYER MODEL | INLET FLOW | | PRESSURE DROP PSI | VOLTAGE | IN/OUT CONNECTIONS | POWER CONSUMPTION KW | REFRIGERANT | DIMENSIONS H x W x D | | WEIGHT | |
|-------------------------------|------------|--------------------|----------------------|----------|--------------------|-------------------------|-------------|-------------------------|--------------------|--------|-------|
| | SCFM | NM ³ /H | | | | | | IN | MM | LBS | KG |
| AIR-COOLED CONDENSER | | | | | | | | | | | |
| DVE75 | 75 | 127 | 2.9 | 115/1/60 | 1" NPT | 0.54 | R134A | 30 x 15 x 24 | 751 x 381 x 603 | 120 | 54.5 |
| DVE100 | 100 | 170 | 3 | 115/1/60 | 1" NPT | 0.62 | R134A | 28 x 15 x 31 | 711 x 381 x 781 | 147 | 66.5 |
| DVE150 | 150 | 255 | 1.7 | 115/1/60 | 2" NPT | 1.04 | R407C | 30 x 18 x 36 | 751 x 443 x 911 | 203 | 92.0 |
| DVE200 | 200 | 340 | 2.1 | 460/3/60 | 2" NPT | 1.26 | R134A | 30 x 18 x 38 | 751 x 443 x 961 | 244 | 111.0 |
| DVE300 | 300 | 509 | 3.6 | 460/3/60 | 2" NPT | 1.99 | R407C | 36 x 20 x 44 | 911 x 494 x 1111 | 324 | 147.0 |
| DVE450 | 450 | 765 | 3.0 | 460/3/60 | 2" NPT | 3.23 | R407C | 41 x 20 x 50 | 1032 x 494 x 1253 | 366 | 166.0 |
| DVE550 | 550 | 935 | 3.0 | 460/3/60 | 2" NPT | 3.42 | R407C | 41 x 20 x 50 | 1032 x 494 x 1253 | 396 | 180.0 |
| DVE800 | 800 | 1300 | 3.70 | 460/3/60 | FLG 3" | 4.3 | R407C | 59 x 32 x 59 | 1488 x 800 x 1494 | 1056 | 479.0 |
| DVE1000 | 1000 | 1699 | 4.2 | 460/3/60 | FLG 3" | 6.6 | R407C | 58 x 34 x 59 | 1488 x 850 x 1500 | 1210 | 549.0 |
| DVE1250 | 1250 | 2150 | 4.60 | 460/3/60 | FLG 4" | 7.6 | R407C | 59 x 39 x 62 | 1488 x 1000 x 1572 | 1537 | 697.0 |
| DVE1500 | 1500 | 2550 | 3.90 | 460/3/60 | FLG 4" | 9 | R407C | 59 x 39 x 62 | 1488 x 1000 x 1572 | 1766 | 801.0 |
| DVE2000 | 2000 | 3400 | 3.10 | 460/3/60 | FLG 4" | 10 | R407C | 59 x 39 x 69 | 1488 x 1000 x 1742 | 2028 | 920.0 |
| WATER-COOLED CONDENSER | | | | | | | | | | | |
| DVE800 | 800 | 1360 | 3.7 | 460/3/60 | FLG 3" | 4.2 | R407C | 59 x 28 x 58 | 1499 x 712 x 1474 | 926 | 421 |
| DVE1000 | 1000 | 1700 | 4.3 | 460/3/60 | FLG 3" | 5.4 | R407C | 59 x 28 x 58 | 1499 x 712 x 1474 | 1059 | 481 |
| DVE1250 | 1250 | 2124 | 4.6 | 460/3/60 | FLG 4" | 7.1 | R407C | 59 x 28 x 64 | 1499 x 712 x 1626 | 1204 | 547 |
| DVE1500 | 1500 | 2549 | 3.9 | 460/3/60 | FLG 4" | 7.1 | R407C | 78 x 32 x 58 | 1982 x 813 x 1474 | 1579 | 717 |
| DVE2000 | 2000 | 3398 | 3.1 | 460/3/60 | FLG 4" | 8.5 | R407C | 78 x 32 x 65 | 1982 x 813 x 1651 | 1804 | 819 |

Performance data presented in accordance with ISO 7183 (Option A2) conditions: 100°F inlet temperature, 100°F ambient temperature and 100 psig conditions.

CAPACITY CORRECTION FACTORS

To adjust the dryer capacity for non-standard conditions, use the Capacity Correction Factors (multipliers) from Tables 1, 2 & 3.

| | | | | | |
|---|--------------------|---------------------|---------------------|----------------------|----------------------|
| TABLE 1: INLET AIR PRESSURE | 75 PSIG 5.2 BAR | 100 PSIG 6.9 BAR | 120 PSIG 8.3 BAR | 150 PSIG 10.3 BAR | 225 PSIG 15.5 BAR |
| MULTIPLIER | 0.86 | 1.00 | 1.04 | 1.09 | 1.15 |
| TABLE 2: INLET AIR TEMPERATURE | 80°F / 27°C | 90°F / 32°C | 100°F / 38°C | 110°F / 43°C | 120°F / 49°C |
| MULTIPLIER | 1.12 | 1.06 | 1.00 | 0.83 | 0.68 |
| TABLE 3: AMBIENT AIR TEMPERATURE | 80°F / 27°C | 90°F / 32°C | 100°F / 38°C | 110°F / 43°C | 120°F / 49°C |
| MULTIPLIER | 1.46 | 1.23 | 1.00 | 0.82 | 0.68 |

High Inlet Temperature Refrigerated Compressed Air Dryers



Space-Saving Design for Use with Reciprocating Compressors up to 25 HP

DV Systems specializes in delivering the best air quality for all working environments. Designed to work with reciprocating compressors, the DVH Series is ideally suited for auto body shops, auto service centers, and light industrial facilities with 5 to 25 horsepower compressors. A unique heat exchanger allows the dryer to accept high inlet temperatures, up to 200° F (93° C). This allows compressed air users to send high temperature air straight from their compressor directly to the DVH Series refrigerated dryer. Separate aftercooler and separator installations are no longer necessary. This provides important savings in installation space and installation time. The models match to most reciprocating compressor sizes and can also be easily sized if the compressor already has a tank-mounted air-cooled aftercooler.

DVH Series Features

- Warm, moist compressed air enters the main pre-cooler/re-heat section where most of the bulk moisture is removed from the airstream. The cooled air then enters the dual heat exchanger assembly where the air is dried down to an average 50°F pressure dewpoint
- Adjustable timed electric drain—valve open and closed time—reliably discharges condensate from the dryer
- Widely spaced Inlet/Outlet connections, flow direction stamped into cabinet, for ease of installation and filter mount
- 15-35 SCFM Controls: Instrumentation with lighted compressor On/Off switch, dew point temperature indicator and fault light
- 60-100 SCFM Controls: Advanced microprocessor controller that lets you easily maintain and manage operation
- Top mount fan, upward condenser air flow allows installation in tight spaces
- Quick release front panel for ease of access to dryer internals for routine maintenance



15-35 SCFM



60-100 SCFM

Reduce Overhead Costs

Removing water, solid particulates and oil from your compressed air system has many benefits which all lead to increased productivity and reduced overhead costs. One typical use for compressed air is for painting. Modern refinish materials and spray guns deliver superior paint finishes. Moisture and oil in the compressed air will result in paint rejects and lead to unnecessary purchases of extra unthinned color-coat paints, thinners and hardeners.

CALCULATE THE COST OF PAINT REJECTS

| COST OF LABOR, MATERIALS & THROUGH-PUT DELAYS | PAINT REJECTS PER WEEK × NUMBER OF WEEKS | COST OF PAINT REJECTS |
|---|--|-----------------------|
| \$150 × | 1 × 52 | = \$7,800 |
| \$150 × | 2 × 52 | = \$15,600 |
| \$200 × | 1 × 52 | = \$10,400 |
| \$200 × | 2 × 52 | = \$20,800 |

SPECIFICATIONS

| MODEL | FLOW CAPACITY | POWER REQUIREMENTS | | IN/OUT CONNECTIONS | REFRIGERANT TYPE** | DIMENSIONS H×W×D | | WEIGHT | |
|--------------------|---------------|--------------------|------|--------------------|--------------------|--------------------|-----------------------|--------|------|
| | SCFM* | V/PH/HZ | KW | NPT | | IN | MM | LBS | KG |
| DVHA15A100 | 15 | 115/1/60 | 0.48 | 3/4" MNPT | R513A | 29.7 × 14.6 × 16.9 | 904.2 × 365.8 × 609.6 | 110 | 46.7 |
| DVHA25A100 | 25 | 115/1/60 | 0.51 | 3/4" MNPT | R513A | 29.7 × 14.6 × 16.9 | 904.2 × 365.8 × 609.6 | 110 | 46.7 |
| DVHA35A100 | 35 | 115/1/60 | 0.64 | 3/4" MNPT | R513A | 29.7 × 14.6 × 16.9 | 904.2 × 365.8 × 609.6 | 117 | 49.9 |
| DVHA60A100 | 60 | 115/1/60 | 0.61 | 3/4" FNPT | R513A | 30.0 × 16.6 × 22.4 | 929.6 × 454.7 × 678.2 | 123 | 63.1 |
| DVHA80A100 | 80 | 115/1/60 | 0.77 | 3/4" FNPT | R513A | 30.0 × 16.6 × 22.4 | 929.6 × 454.7 × 678.2 | 128 | 64.0 |
| DVHA100A100 | 100 | 115/1/60 | 1.16 | 1" FNPT | R513A | 30.0 × 16.6 × 22.4 | 929.6 × 454.7 × 678.2 | 132 | 68.0 |

*Rating conditions are 180°F inlet temperature, 125 psig inlet pressure, 100% inlet relative humidity, 100°F ambient temperature.

**Refer to dryer data plate for refrigerant charge.

***To ensure optimal performance, do not operate continuously in conditions below or above max/min specifications.

*Premium
Warranty*

2 Years—Standard
3 Years—Extended
5 Years—Total

Parts and labor included. Contact your local distributor for more details.

DVMLA Series Modular Desiccant Dryers



Improve Air Quality Output, Reduce Operating Costs

Innovative modular air dryers by DV Systems make it easier and more affordable than ever to deliver high-quality compressed air for instrumentation, process equipment, or production lines—virtually wherever it is needed:

- High-efficiency filtration and desiccant bed adsorption provide clean, dry air
- Compact, fully integrated units install at point-of-use, so you pay for drying only the air required
- Conservative pressure drop lowers power costs
- Optional energy management system for larger units reduces purge air during partial loads
- -40°F and -100°F PDP models



Enhance Productivity

Our dryers feature standard ISO Class 2 dewpoint performance, with optional ISO Class 1 to meet the most stringent requirements. This helps prevent corrosion and minimizes production disruptions or losses due to moisture or contamination. And easy on-site maintenance—less than 15 minutes after 12,000 hours of use—gets you back on line quickly.

Extend Performance Reliability

In addition to being efficient, these simple and easy-to-maintain modular dryers are also an excellent long-term investment:

- Extruded aluminum construction with Alocrom and epoxy painting prevents corrosion
- Compact, modular designs have few moving parts
- Proven, reliable electronic controls, with control panel indication for preventive maintenance, help ensure long-lasting performance
- Warranty coverage you can trust: 12 months from start up or 18 months from shipment

Promote Environmental Safety

Because noise levels (<75 dB) are so low, DV Systems modular dryers can be installed right in the work environment. In addition, the dryer's remote exhaust feature offers further enhanced noise suppression. These refrigerant-free units are also designed with a NEMA 1 enclosure and in accordance with ASME, PED, CSA, UL, and CRN standards.

SPECIFICATIONS: DVMLA SERIES | MODULAR AIR DRYERS

| MODEL | CAPACITY | | INLET/OUTLET CONNECTION | MAX. PRESSURE | | DIMENSIONS W x D x H | | WEIGHT | |
|----------|----------|--------------------|-------------------------|---------------|------|-------------------------|------------------|--------|-----|
| | SCFM | M ³ /HR | | PSIG | BARG | INCHES | MM | LB | KG |
| DVMLA3 | 3 | 5 | 3/8" | 203 | 14 | 9.4 x 8.3 x 16.7 | 238 x 212 x 423 | 24.2 | 11 |
| DVMLA9 | 9 | 15 | 3/8" | 203 | 14 | 9.4 x 8.3 x 32.4 | 238 x 212 x 823 | 39.7 | 18 |
| DVMLA15 | 15 | 25 | 3/8" | 203 | 14 | 9.4 x 8.3 x 42.2 | 238 x 212 x 1073 | 59.5 | 27 |
| DVMLA24 | 24 | 40 | 3/4" | 203 | 14 | 18.7 x 15.9 x 38.1 | 475 x 405 x 968 | 97 | 44 |
| DVMLA32 | 32 | 55 | 3/4" | 203 | 14 | 18.7 x 15.9 x 44 | 475 x 405 x 1118 | 110.2 | 50 |
| DVMLA41 | 41 | 70 | 3/4" | 203 | 14 | 18.7 x 15.9 x 51.9 | 475 x 405 x 1318 | 132.2 | 60 |
| DVMLA59 | 59 | 100 | 1" | 203 | 14 | 18.7 x 15.9 x 65.9 | 475 x 405 x 1673 | 160.9 | 73 |
| DVMLA88 | 88 | 151 | 1" | 203 | 14 | 18.7 x 15.9 x 73.7 | 475 x 405 x 1873 | 198.4 | 90 |
| DVMLA118 | 118 | 200 | 1 1/2" | 203 | 14 | 21.1 x 19.5 x 67.1 | 536 x 495 x 1705 | 390.1 | 177 |
| DVMLA147 | 147 | 251 | 1 1/2" | 203 | 14 | 21.1 x 19.5 x 75 | 536 x 495 x 1905 | 396.7 | 180 |
| DVMLA177 | 177 | 300 | 1 1/2" | 203 | 14 | 21.1 x 19.5 x 75 | 536 x 495 x 1905 | 414.4 | 188 |

DVMLA Benefits

- Minimize contaminants, corrosion, energy use
- Reduce costs by treating only the air you need
- Deliver quiet performance on the spot
- Sustain high efficiency with easy maintenance





DVMLA Series
for Your Critical Applications

World Class Filtration



DVF Series Filters provide your compressed air system with premium quality filtration for the three typical contaminant types:

- 1 Solid particles come from ambient air contaminants like dust and from rusted, oxidized pipework. They will cause pneumatic equipment to malfunction, cause instrument and control failures, and contaminate end products.
- 2 Condensed water droplets come from the humidity in ambient air. Water will oxidize pipework and pneumatic equipment, ruin paint finishes and end products.
- 3 Liquid oil and oil vapors are introduced by compressor lubricants and by hydrocarbon vapors present in ambient air. Oil-free compressed air is particularly important in food and pharmaceutical processes.

International Standards for Test & Measurement

ISO 12500 defines a universal method for manufacturers to test and rate compressed air filters. Critical performance parameters are specified for inlet oil challenge and solid particulate size distribution.

- ISO 12500-1 defines the testing of coalescing filters for oil aerosol removal performance.
- ISO 12500-2 quantifies vapor removal capacity of adsorption filters.
- ISO 12500-3 outlines requirements to test particulate filters for solid contaminant removal.

The DVF Series is tested to ISO 12500. Test results provide certifiable performance data based on defined challenge concentrations.

DVF SERIES FILTRATION PERFORMANCE

| ELEMENT GRADE | S | DP | GP | HE | AC |
|---|-----------------------|-----------------------|--------------------------|---------------------------|---|
| Particle Retention Size¹ (Per ISO 12500-3) | 3.0 µm | 1.0 µm | 0.01 µm | 0.01 µm | 0.01 µm |
| Particle Removal Efficiency (Per ISO 12500-3) | — | 99.999+% | 99.999+% | 99.9999+% | 99.999+% |
| Oil Removal Efficiency (Per ISO 12500-1) | 50% | 80% | 99.9+% | 99.99+% | — |
| Remaining Oil Content² (Per ISO 12500-1) | 5.0 mg/m ³ | 2.0 mg/m ³ | < 0.01 mg/m ³ | < 0.001 mg/m ³ | < 0.004 mg/m ³ (as a vapor) |

¹ Solid particulate size distribution 0.01 to 5.0 µm; ² Inlet oil challenge concentration 10 mg/m³

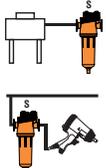
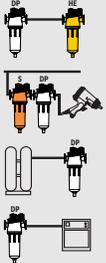
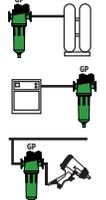
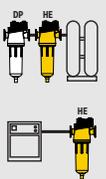
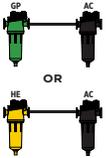
Total System Protection

The DVF Series provides protection for the entire compressed air system. A wide range of filters exceeds customer requirements for ISO Quality Class performance, service life and optimal energy savings.

Compressed air contamination exists in three states: solid, liquid and gaseous.

- Ingested contaminants appear in the form of water, hydrocarbons and particulates.
- The compression process introduces lubricant and wear particles into the system.
- Piping distribution and storage tanks foster contaminants in the form of rust, pipe scale and bacteria.

DVF SERIES ELEMENT SPECIFICATIONS

| ELEMENT GRADE | DESCRIPTION | ISO PERFORMANCE DATA | WHERE APPLIED |
|---|--|--|--|
|  <p>Grade S Bulk Liquid Separator/Filter</p> | <p>Separator/filter removes bulk liquid and solids.</p> | <ul style="list-style-type: none"> ■ Removes solids 3 micron and larger ■ Remaining oil content 5 mg/m³ <p>ISO 8573.1: 2009 Air Quality Class:</p> <ul style="list-style-type: none"> ■ Solid Particles - Class 3 ■ Remaining Oil Content - Class 5 | <ul style="list-style-type: none"> ■ Downstream of aftercoolers ■ At point-of-use if no aftercooler/separator installed upstream  |
|  <p>Grade DP General Purpose Filter</p> | <p>General purpose filtration to protect pneumatically operated tools, motors and cylinders.</p> | <ul style="list-style-type: none"> ■ Removes solids 1.0 micron and larger ■ Remaining oil content 2.0 mg/m³ <p>ISO 8573.1: 2009 Air Quality Class:</p> <ul style="list-style-type: none"> ■ Solid Particles - Class 2 ■ Remaining Oil Content - Class 4 | <ul style="list-style-type: none"> ■ Upstream of ultra high efficiency oil removal filters ■ At point-of-use if aftercooler/separator installed upstream ■ Downstream of heatless desiccant dryers ■ Upstream of refrigerated dryers  |
|  <p>Grade GP High Efficiency Oil Removal Filter</p> | <p>Fine coalescer provides oil free air for industrial applications such as spray painting, injection molding, instrumentation and control valves.</p> | <ul style="list-style-type: none"> ■ Removes 99.999+% of solids 0.01 micron and larger ■ Remaining oil content <0.01 mg/m³ <p>ISO 8573.1: 2009 Air Quality Class:</p> <ul style="list-style-type: none"> ■ Solid Particles - Class 1 ■ Remaining Oil Content - Class 1 | <ul style="list-style-type: none"> ■ Upstream of desiccant dryers ■ Downstream of refrigerated dryers ■ At point-of-use if aftercooler/separator installed upstream  |
|  <p>Grade HE Ultra High Efficiency Oil Removal Filter</p> | <p>Ultra fine coalescer delivers oil free air for critical applications including, conveying, electronics manufacturing and nitrogen replacement.</p> | <ul style="list-style-type: none"> ■ Removes 99.9999+% of solids 0.01 micron and larger ■ Remaining oil content <0.001 mg/m³ <p>ISO 8573.1: 2009 Air Quality Class:</p> <ul style="list-style-type: none"> ■ Solid Particles - Class 1 ■ Remaining Oil content - Class 1 | <ul style="list-style-type: none"> ■ Upstream of desiccant dryers ■ Upstream of membrane dryers (Use a PF Grade as a prefilter if heavy liquid loads are present) ■ Downstream of refrigerated dryers  |
|  <p>Grade AC Oil Vapor Removal Filter</p> | <p>Activated carbon filter removes oil vapor and provides oil free air for food and drug manufacturing, breathing air and gas processing.</p> | <ul style="list-style-type: none"> ■ Removes solids 0.01 micron and larger ■ Remaining oil content <0.004 mg/m³ (as a vapor) <p>ISO 8573.1: 2009 Air Quality Class:</p> <ul style="list-style-type: none"> ■ Solid Particles - Class 1 ■ Remaining Oil Content - Class 1 | <ul style="list-style-type: none"> ■ Downstream of high efficiency oil removal filters  |

Patented Venturi-Wave™ Element



1 Patented Filter Element Design

- The venturi profile promotes a turbulent-free transition for compressed air entering the element
- Optimized flow distribution through the element minimizes pressure loss and reduces system operating cost
- Unique backside contour assists smooth movement of air exiting the filter housing

2 Deep Bed Pleated, High Performance Media

- Increased effective filtration surface area, reduces pressure drop by 50%
- 96% voids-volume ratio optimizes dirt loading capacity
- HEPA grade micro fiberglass media maximizes efficiency
- Thermally bonded polyester support layers minimize media migration
- Low wetted pressure drop for the life of the element
- Seam welded, stainless steel inner and outer support cores enhance dimensional stability of the element
- Chemically inert, non-aging polyester drain layer expedites removal of liquid
- All materials of construction are silicone free

3 Element Grade Identification

- Color coded end caps promote ease of element grade identification
- Bottom end caps pad printed with genuine DV Systems filter element replacement part number

ELEMENT: MATERIALS OF CONSTRUCTION

| | |
|---------------------------|---------------------------------------|
| Filter Media | HEPA grade borosilicate fiberglass |
| Inner/Outer Support Cores | 400 Series stainless steel |
| Drainage Layer | Filtration grade polyester |
| End Caps | Fiberglass reinforced polyamide resin |
| Bonding Agent | Polyurethane |
| End Cap Seal | Nitrile |

Optimized Housing Design

4 Sculpted Design

- Covers flow ranges 20 scfm to 1500 scfm (34 to 2549 nm³/h)
- Flanged inlet and outlet connections make installation easy
- Thirteen flow models, with multiple port sizes, 1/4" to 3" NPT, allow for greater application flexibility
- Sculpted housing designs, with large unrestricted flow paths, reduce pressure drop

5 Safety Built-In

- Die cast aluminium housings provide a cost effective solution in the 1030 to 1500 scfm (1750 to 2549 nm³/h) flow range
- Chromated housings, with a polyester epoxy powder coating for corrosion resistance
- Internally ribbed bowls facilitate condensate draining
- Audible alarm when attempting bowl removal under pressure



HOUSING: MATERIALS OF CONSTRUCTION

| | |
|----------------------|---|
| Filter Head | Aluminum |
| Filter Housing | Aluminum |
| Seals | Nitrile |
| Chromating Process | Hexavalent-free trivalent |
| Exterior Coating | Polyester epoxy powder |
| Manual Drain | Brass body, Viton® seal |
| Internal Float Drain | Polyacetal float, Brass body, Viton® seal and stainless steel springs |

NOTE: Images representative of 20-1500 SCFM filters.

Comply with Pressure Vessel Directives Worldwide

DVF Series Filters utilize housings which conform to most major pressure vessel directives in the Americas, Europe, and Asia.



*Standard
Warranty*

12 Months from Start-up

18 Months from Date
of Shipment

Parts only.
Contact your
local distributor
for more details.



ISO QUALITY CLASS 8573.1: 2010

| ELEMENT GRADE | ISO QUALITY CLASS SOLIDS | ISO QUALITY CLASS OIL |
|---------------|--------------------------|-----------------------|
| S | 3 | 5 |
| DP | 2 | 4 |
| GP | 1 | 1 |
| HE | 1 | 1 |
| AC | 1 | 1 (as a vapor) |

DVF series elements are performance validated to ISO12500 ensuring air quality delivered is in accordance to ISO 8573.1: 2010 classifications.

| AIR QUALITY CLASS | SOLID PARTICLES | | | WATER VAPOR PRESSURE | | OIL | |
|-------------------|--|----------------|----------------|----------------------|------|--|---------|
| | MAXIMUM NUMBER OF PARTICLES PER M ³ | | | DEW POINT | | TOTAL OIL CONCENTRATION: AEROSOL, LIQUID & VAPOR | |
| | 0.10-0.5 MICRON | 0.5-1.0 MICRON | 1.0-5.0 MICRON | °C | °F | MG / M ³ | PPM W/W |
| 0 | As specified by the equipment user or supplier and more stringent than class 1 | | | | | | |
| 1 | ≤20,000 | ≤400 | ≤10 | ≤-70 | ≤-94 | 0.01 | 0.008 |
| 2 | ≤400,000 | ≤6,000 | ≤100 | ≤-40 | ≤-40 | 0.1 | 0.08 |
| 3 | - | ≤90,000 | ≤1,000 | ≤-20 | ≤-4 | 1 | 0.8 |
| 4 | - | - | ≤10,000 | ≤+3 | ≤+37 | 5 | 4 |
| 5 | - | - | ≤100,000 | ≤+7 | ≤+45 | - | - |

DVF SERIES PRESSURE DROP PERFORMANCE*

| ELEMENT GRADE | FILTER DESCRIPTION | DRY ΔP | | WETTED ΔP | |
|--|--|--------|------|-----------|------|
| | | PSIG | BAR | PSIG | BAR |
|  S | Bulk Liquid Separator/Filter | 0.8 | 0.06 | 1.0 | 0.07 |
|  DP | General Purpose Filter | 0.6 | 0.04 | 1.4 | 0.10 |
|  GP | High Efficiency Oil Removal Filter | 0.6 | 0.04 | 1.8 | 0.12 |
|  HE | Ultra High Efficiency Oil Removal Filter | 0.8 | 0.06 | 2.0 | 0.14 |
|  AC | Oil Vapor Removal Filter | 1.0 | 0.07 | - | - |

*Pressure drop not to exceed stated values at ISO 12500 test conditions

SPECIFICATIONS

| MODEL | CAPACITY | | CONNEX- TIONS | STANDARD FEATURES | MAX PRESSURE PSIG [BAR] & TEMP °F (°C) | DIMENSIONS | | | | WEIGHT | | ELEMENT - LESS GRADE | |
|------------------------------|------------|----------------------|-------------------|----------------------|--|------------|------|-------|------|--------|-------|-------------------------|-----|
| | @ 100 PSIG | | NPT/ ANSI FLG. | FILTER GRADES | | HEIGHT | | WIDTH | | LB | KG | BASE MODEL | QTY |
| | SCFM | NM ³ / HR | | | | IN | MM | IN | MM | | | | |
| MODULAR TYPE HOUSINGS | | | | | | | | | | | | | |
| DVF20 | 20 | 34 | 1/4" NPTF | D P1 | 250 psig/17.2 bar 150°F/66°C | 8.1 | 206 | 4.50 | 114 | 1.8 | 0.8 | DVF20 | |
| DVF35 | 35 | 59 | 3/8" NPTF | D P1 | | 8.10 | 206 | 4.50 | 114 | 1.8 | 0.8 | DVF35 | |
| DVF50 | 50 | 85 | ½" NPTF | D P1 | | 9.9 | 251 | 4.50 | 114 | 1.9 | 0.9 | DVF50 | |
| DVF75 | 75 | 127 | 3/4" NPTF | D P1 | | 10.30 | 262 | 5.20 | 132 | 3.1 | 1.4 | DVF75 | |
| DVF103 | 103 | 175 | 3/4" NPTF | D P1 | | 10.30 | 262 | 5.20 | 132 | 3.1 | 1.4 | DVF103 | |
| DVF157 | 157 | 267 | 1" NPTF | D G1 | | 12.8 | 325 | 5.20 | 132 | 3.5 | 1.6 | DVF157 | |
| DVF257 | 257 | 437 | 1½" NPTF | D G1 | | 13.30 | 338 | 7.90 | 201 | 8.4 | 3.8 | DVF257 | |
| DVF360 | 360 | 612 | 1½" NPTF | D G1 | | 17.10 | 434 | 7.90 | 201 | 10 | 4.5 | DVF360 | 1 |
| DVF401 | 401 | 681 | 2" NPTF | D G1 | | 22.30 | 566 | 7.90 | 201 | 12 | 5.4 | DVF401 | |
| DVF584 | 584 | 993 | 2½" NPTF | X G1 | | 24.90 | 632 | 9.10 | 231 | 19 | 8.6 | DVF584 | |
| DVF775 | 775 | 1,317 | 2½" NPTF | X G1 | | 24.90 | 632 | 9.10 | 231 | 19 | 8.6 | DVF775 | |
| DVF1030 | 1,030 | 1,750 | 3" NPTF | X G1 | | 24.90 | 632 | 9.10 | 231 | 19 | 8.6 | DVF1030 | |
| DVF1200 | 1,200 | 2,039 | 3" NPTF | X G1 | | 32.20 | 818 | 9.10 | 231 | 28 | 12.7 | DVF1200 | |
| DVF1500 | 1,500 | 2,549 | 3" NPTF | X G1 | | 42.70 | 1245 | 9.10 | 231 | 41 | 18.7 | DVF1500 | |
| PRESSURE VESSEL | | | | | | | | | | | | | |
| DVF2500 | 2,500 | 4,247 | 4" FLG. | T G1 | 225 psig/15.5 bar 150°F/66°C | 52.25 | 1327 | 20.00 | 508 | 179 | 81.2 | DVF2500 | 4 |
| DVF3125 | 3,125 | 5,309 | 4" FLG. | T G1 | | 52.25 | 1327 | 20.00 | 508 | 182 | 82.6 | DVF3125 | 5 |
| DVF5000 | 5,000 | 8,495 | 6" FLG. | T G1 | | 54.63 | 1387 | 24.00 | 610 | 271 | 123.0 | DVF5000 | 8 |
| DVF6875 | 6,875 | 11,681 | 6" FLG. | T G1 | | 62.56 | 1589 | 28.00 | 711 | 518 | 235.0 | DVF6875 | 11 |
| DVF8750 | 8,750 | 14,866 | 6" FLG. | T G1 | | 62.56 | 1589 | 28.00 | 711 | 527 | 239.0 | DVF8750 | 14 |
| DVF11875 | 11,875 | 20,176 | 8" FLG. | T G1 | | 69.13 | 1756 | 33.00 | 838 | 709 | 322.0 | DVF11875 | 19 |
| DVF16250 | 16,250 | 27,690 | 8" FLG. | T G1 | | 67.94 | 1726 | 39.00 | 991 | 918 | 416.0 | DVF16250 | 26 |
| DVF21250 | 21,250 | 36,104 | 10" FLG. | T G1 | | 70.94 | 1802 | 45.88 | 1165 | 1412 | 640.0 | DVF21250 | 34 |

(1) Drain plugs standard. Externally mounted automatic drains are available.

D - Internal Automatic Drain, G1 - Differential Pressure Gauge, P1 - Differential Pressure Slide, T - Drain Plug, X - External Drain Adapter

SIZING CORRECTION FACTORS

To find the maximum flow at pressures other than 100 psig [7 kgf/cm²], multiply the flow by the Correction Factor corresponding to the minimum pressure at the inlet of the filter. Do not select filters by pipe size; use flow rate and operating pressure.

EG: DVF360 nominal rated capacity
360 SCFM. Inlet Operating Pressure:
120 PSIG. Corrected filter flow capacity:
360 SCFM × 1.17 = 421.20 SCFM

| PSIG | 20 | 30 | 40 | 60 | 80 | 100 | 120 | 150 | 200 | 250 | 300 | 60* | 100* | 125* | 150* | 175* | 200* | 250* | 300* |
|--------------------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| KG/CM ² | 1.4 | 2.1 | 2.8 | 4.1 | 5.6 | 6.9 | 8.3 | 10.3 | 13.8 | 17.2 | 20.7 | 4.2 | 6.9 | 8.8 | 10.6 | 12.3 | 14.1 | 17.6 | 21 |
| CORRECTION FACTOR | 0.30 | 0.39 | 0.48 | 0.65 | 0.83 | 1 | 1.17 | 1.44 | 1.87 | 2.31 | 2.74 | 0.65 | 1 | 1.22 | 1.43 | 1.65 | 1.87 | 2.31 | 2.74 |

* Denotes correction factor for filters ≥2500 SCFM only.

EG: use correction factor of .48 for all filter sizes @ 40 PSIG, no * denotes common value for all filter sizes

Lubricated Rotary Screw Compressor



Create a Custom Air Treatment System

Grade DP

QUALITY CLASS

1.6.1

Pneumatic Tools
Spray Painting

Wet Air Receiver High Temp. Refrigerated Dryers



Grade GP

QUALITY CLASS

1.4.1

Food & Beverage Laboratories

Wet Air Receiver

Refrigerated Dryers



Grade HE & AC

QUALITY CLASS

1.2.1 or 1.1.1

Food & Beverage Laboratories
Semiconductor

Wet Air Receiver

Desiccant Dryers



Grade AC

Maximize system air quality by choosing the combination of DV Systems air treatment products which perfectly match your applications' requirements.





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