



HIGH PRESSURE REFRIGERATED COMPRESSED AIR DRYER

HPET SERIES

COMPRESSED AIR TREATMENT SOLUTION: HPET SERIES

Hankison HPET refrigerated air dryers are an integral component for high pressure compressed air installations. A trusted brand name known since 1948, Hankison air treatment products remove water vapor, solid particulate and oil aerosols and vapor for efficient compressed air systems. Designed for 725 psig (51 kg/cm²) operation, applications for HPET dryers include blow molding, aeronautical valve testing, pharmaceutical packaging and injection molding.

Hankison HPET Series dryers are built in accordance to UL/ CSA certification and offer time-tested, field proven technology guaranteed to provide years of trouble free service.

Supreme Craftmanship ①

- 316 stainless steel brazed plate heat exchangers- No pre-filtration required
- Rugged hermetically sealed refrigeration systems provide years of trouble free service
- Employs environmentally friendly HFC refrigerants
- Unique cabinet design promotes ease of access to perform routine maintenance
- Precision hot gas bypass valve maintains evaporator temperature with freeze-ups

Filtration ②

- Standard filter/separator removes bulk liquids and particles down to 3 micron in size
- Optional cold coalescing filter remove oil and condensable hydrocarbons to 0.008 ppm/wt
- Timed electric condensate drain reliably discharges contamination from system
- Optional filtration available for Normal and Severe Operation

User-Friendly Instrumentation ③

Indication lights include:

- Power on
- Compressor on
- Refrigerant fault alarm
- Dew point temperature indicator
- Timer drain programming mode



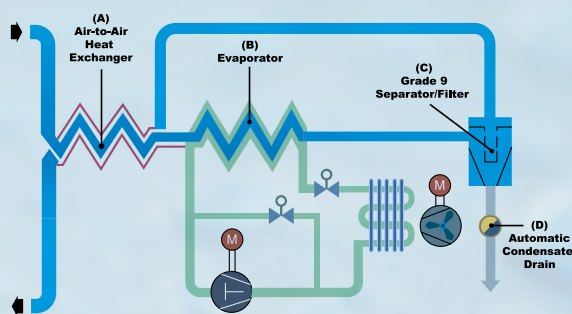
OPTIONS

- Dry contact for fault condition

HPET SERIES SPECIFICATIONS

HOW IT WORKS: AIR DRYING CIRCUIT

Compressed air, saturated with water vapor, enters the air-to-air heat exchanger (A), is pre-cooled by the outgoing chilled air, and then directed to the air-to-refrigerant (evaporator) heat exchanger (B) where it is further cooled by the refrigeration system. As the air is cooled, water vapor condenses into liquid droplets which are removed by the separator/filter (C) and discharged from the dryer by an automatic drain (D). Dry, chilled air then returns through the air-to-air heat exchanger where it is reheated before exiting the dryer.



HPET Series Product Specifications

Model	Rated Flow ¹		Pressure Drop		Maximum Working Pressure		Refrigeration System	Voltage	Inlet/Outlet Connections		Height		Width		Depth		Weight		
	scfm	nm ³ /hr	psig	kg/cm ²	psig	kg/cm ²			hp	in	mm	in	mm	in	mm	in	mm	lbs	kg
HPET-0.5	130	221	1.7	0.12	725	51	0.5	115/1/60	1-1/2 MPT	38.1	37.6	954	25.6	651	19.6	498	251	114	
HPET-0.75	200	340	1.9	0.13	725	51	0.75		1-1/2 MPT	38.1	37.6	954	25.6	651	19.6	498	279	127	
HPET-1.0	300	510	2.4	0.17	725	51	1.0		1-1/2 MPT	38.1	38.6	980	32.2	817	32.2	817	425	193	
HPET-1.5	500	850	4.6	0.32	725	51	1.5		1-1/2 MPT	38.1	38.6	980	32.2	817	32.2	817	463	210	
HPET-2.5	750	1,275	4.5	0.32	725	51	2.5		1-1/2 MPT	38.1	58.1	1,475	32.2	817	41.6	1,057	691	313	
HPET-3.5	1,000	1,700	3.7	0.26	725	51	3.5		460/3/60	1-1/2 MPT	38.1	58.1	1,475	32.2	817	41.6	1,057	734	333
HPET-4	1,250	2,125	3.1	0.22	725	51	4			3" MPT	76.2	59	1,499	52	1,321	52	1,321	889	404
HPET-6	1,750	2,975	6.2	0.43	725	51	6			3" MPT	76.2	59	1,499	52	1,321	52	1,321	939	427
HPET-7.5	2,000	3,400	3.6	0.25	725	51	7.5			3" MPT	76.2	59	1,499	52	1,321	52	1,321	1,204	547
HPET-10	3,000	5,100	4.6	0.32	725	51	10		3" MPT	76.2	59	1,499	52	1,321	52	1,321	1,329	604	

¹ Rated Flow Capacity - Conditions are 100°F (38°C) inlet temperature, saturated with water vapor, 725 psig (50 kg/cm²) inlet pressure, 100°F (38°C) ambient temperature, 60Hz. 50Hz units are available.

HPET Series Optional Filtration

Refrigerated Dryer Model	3 Micron Particulate Prefilter	1 Micron Particulate Afterfilter	0.0008 ppm Oil Removal Afterfilter
HPET-1	HF9-20-8-69	HF7-20-8-69	HF3-20-8-69
HPET-1.5	HF9-24-8-69	HF7-24-8-69	HF3-24-8-69
HPET-2.5 - HPET-4	HF9-32-8-69	HF7-32-8-69	HF3-32-8-69
HPET-6 - HPET-10	HF9-52-24-48	HF7-52-24-48	HF3-52-24-48

Selecting your Filtration

When selecting filtration for your HPET system consider your operating conditions. Normal operating conditions utilize Grade 7 and 3 filtration. For severe operating conditions utilize Grade 9, 7, and 3 filtration in your system.

Capacity Correction Factors

To adjust dryer capacity for conditions other than rated, use Correction Factors (multipliers) from Tables 1 and 2.

Example: What is the capacity of an HPET-3.5 when the compressed air at the inlet to the dryer is 500 psig (34.5 kg/cm²) and 110°F (43°C), the ambient temperature is 90°F (32°C), and the operating voltage is 380/3/50?

Answer: 1,000 scfm (rated flow from Product Specifications Table) x 0.83 (Correction Factor from Table 1) x 1.06 (Correction Factor from Table 2) x 0.83 (Electrical Frequency for 50 Hz, for 60 Hz no adjustment is required) = 730 scfm (1,240 nm³/h).

Table 1 - Inlet Temperature & Pressure

Inlet Pressure	Inlet Temperature				
	80°F 27°C	90°F 32°C	100°F 38°C	110°F 43°F	120°F 49°F
300 psig to MWP 20 kg/cm ² to MWP	1.49	1.19	1.0	.83	.72

Table 2 - Ambient Temperature*

Ambient Temperature	80°F 27°C	90°F 32°C	100°F 38°C	110°F 49°C
Multiplier	1.12	1.06	1.00	0.94

* Air-cooled models only. For water-cooled use a 1.15 multiplier if cooling water is less than 95°F (35°C).

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