

HTD 5-in-1 High Temperature Refrigeration Compressed Air Dryers

- **Lower Power Cost**
 - **Lower Pressure Drop**
 - **Auto-Sleep Mode**



Includes:

- 1. Air-cooled aftercooler**
- 2. Pre-filter/separator**
- 3. Refrigeration dryer**
- 4. Timer/solenoid drain**
- 5. Microprocessor Controls**

High Temperature Refrigeration Compressed Air Dryers

Includes aftercooler, dryer, filter/separator, timer/solenoid drain & microprocessor controls

- Up to 50% lower power consumption than other designs!
- Constant 35°F dew point with 180°F inlet to dryer
- Ideal for single-source installation in machine & auto-body repair shops, dentist office etc.
- Eliminates: product spoilage, orange-peel paint finish, air wastage, down-time
- All-copper heat exchangers & stainless steel separator – corrosion-free
- Built-in 5-micron washable ceramic pre-filter removes bulk water, oil & dirt
- Single, adjustable timer/solenoid drain, with push-to test on control panel – drains aftercooler, dryer & filter
- Microprocessor/LED displays dew point temperature and alerts operator to alarm conditions
- 6' power cord – simple on-site hook-up
- Environmentally safe R-134a refrigerant
- Optional filters for technically oil-free air & oil/water condensate separators to dispose of compressor oil

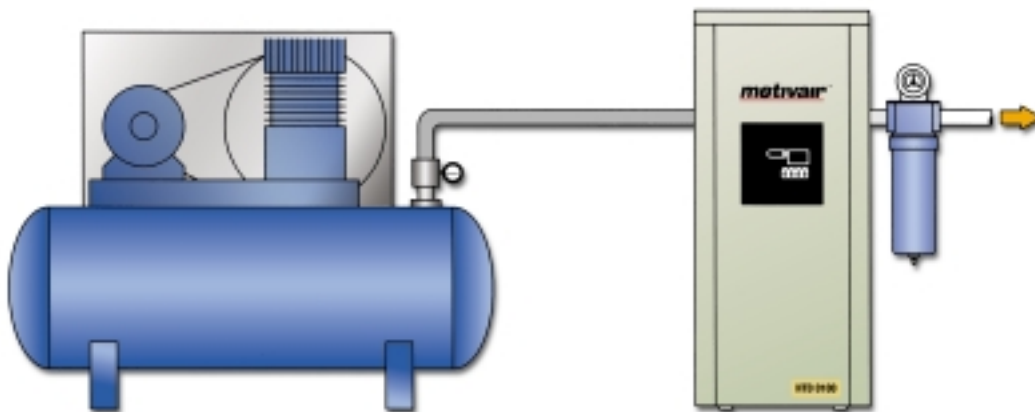
Unique design of the HTD dryers allows higher inlet temperature, with lower power consumption than competitive models – Compare refrigeration compressor HP & KW power

HTD dryers have “Auto-Sleep” mode which stops dryer on zero load, then restarts automatically – saves even more energy during breaks in production, etc.

Microprocessor control has dew point display, plus alarms

Displays: Dew point, high dew point alarm, low dew point alarm, sensor failure

Adjusts: Dew point temperature, dew point differential, timer/solenoid drain frequency & duration, minimum compressor off time, high & low dew point alarms, alarm delay time, select °F or °C read-out



Simple Installation – Clean, Dry, Technically Oil-Free Air

HTD 5-in-1 Dryers

Accessories

Filters

In addition to the standard internal filter, HTD dryers can be equipped with optional, external filters, to achieve a very high level of air purity for paint spraying, instrumentation, air bearings, dental instruments, etc. See Extended Warranty below. Optional Motivair filters are:

- M Series** – 0.1 micron (oil coalescer) 0.5 ppm remaining (high efficiency)
- S Series** – 0.01 micron (oil coalescer) 0.01 ppm remaining (very high efficiency)
- A Series** – Activated carbon – oil odor & taste removal 0.005 ppm remaining (technically oil-free air – must be installed with M or S pre-filter)



All external filters are supplied with internal float drain & calibrated differential pressure gauge (except A series, which requires neither). Consult the Motivair filter brochure or your Motivair distributor for complete details.



Oil/Water Condensate Separators

It is now illegal in most areas to discharge oily compressor condensate to the sewers, rivers or ground water. Motivair has a complete range of OSW oil/water separators to compliment your HTD dryer installation. The OSW will separate the oily condensate from the compressor, the HTD dryer and any additional filters. There are no power requirements, only occasional replacement of the activated carbon filters. Oil is separated into a plastic container for legal disposal. The clean condensate may be piped directly to the sewer. Help the environment and avoid unnecessary shutdown problems.

Extended Warranty

Standard HTD warranty is one year on all parts & labor, plus 5-year heat exchanger & separator warranty. If a Motivair coalescing filter is purchased & installed with any HTD dryer, a 2nd year all-parts warranty is added for the dryer, plus a one year warranty on the coalescing filter element. Ask your Motivair distributor for details.

HTD Technical Data

SCFM Capacity @ 180°F/35°F Dew Point

Model	100 psig	140 psig	175 psig
HTD 0021	21	24	26
HTD 0030	30	35	38
HTD 0041	41	47	51
HTD 0060	60	69	75
HTD 0082	82	94	103
HTD 0100	100	115	126

SCFM Capacity @ 140°F/35°F Dew Point

Model	100 psig	140 psig	175 psig
HTD 0020	25	29	32
HTD 0030	36	41	45
HTD 0041	49	57	62
HTD 0060	72	83	90
HTD 0082	98	113	123
HTD 0100	120	138	150

SCFM Capacity @ 120°F/35°F Dew Point

Model	100 psig	140 psig	175 psig
HTD 0020	26	30	33
HTD 0030	38	43	47
HTD 0041	52	59	65
HTD 0060	76	87	95
HTD 0082	103	119	129
HTD 0100	126	145	157

Physical Data

Model No.	Air Conns NPT	Refrig. HP	Dimensions					Weight lb	Power kW
			A	B	C	D	E		
HTD 0021	1/2"	0.25	31.5"	13"	18.5"	8.8	23.0	88	0.24
HTD 0030	3/4"	0.33	31.5"	13"	18.5"	8.8	23.0	90	0.29
HTD 0041	3/4"	0.33	31.5"	13"	18.5"	8.8	23.0	95	0.45
HTD 0060	3/4"	0.5	39.4"	13"	21.7"	9.3	29.6	110	0.66
HTD 0082	1"	0.75	39.4"	13"	21.7"	9.3	29.6	120	0.70
HTD 0100	1"	1	39.4"	13"	21.7"	9.3	29.6	140	0.98

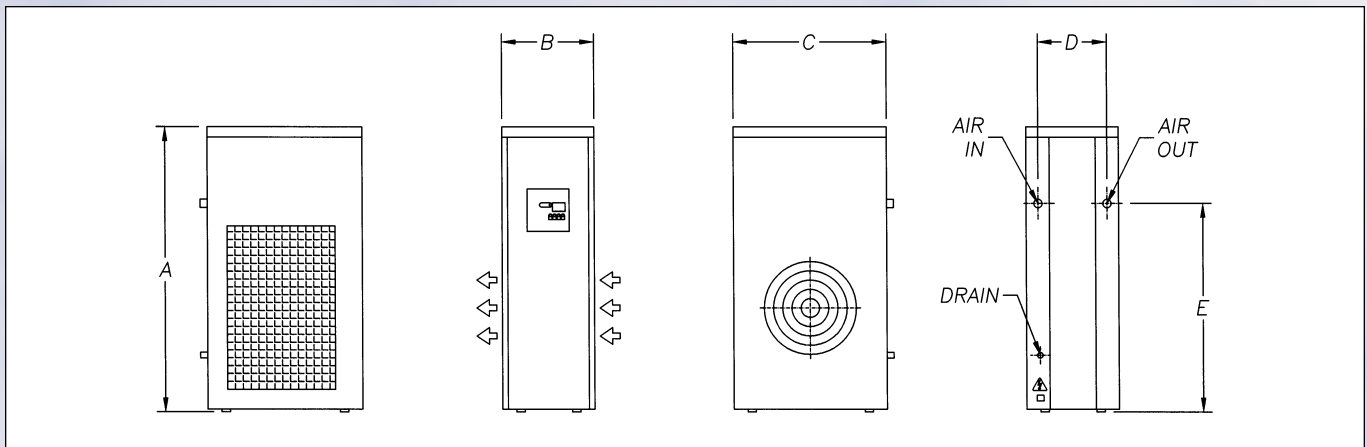
Accessories

'M' Series Filter	'S' Series Filter	'A' Series Filter	OSW Separator
AF0056-M	AF0056-S	AF0056-A	OSW-1
AF0056-M	AF0056-S	AF0056-A	OSW-1
AF0076-M	AF0076-S	AF0076-A	OSW-1
AF0106-M	AF0106-S	AF0106-A	OSW-1
AF0186-M	AF0186-S	AF0186-A	OSW-2
AF0186-M	AF0186-S	AF0186-A	OSW-2

Maximum load rated at 180°F inlet compressed air @ 100 psig/100°F ambient/35°F dew point.

Maximum operating pressure 230 psig. All models 115/1/60.

Total pressure drop is 3.0 psi @ 100 psig/180°F rating point, 5 psi @ maximum flow rating.



Motivair – Your Complete One-Stop Supplier for:

Compressed Air Treatment:

- Refrigeration Dryers – cycling and non-cycling
- Regenerative Dryers
- Aftercoolers, separators & traps
- Timer/solenoid & zero-less drain valves
- Oil/water condensate separators

Industrial Water Cooling:

- Packaged refrigeration water chillers
- Dry-type closed loop cooling systems
- Evaporative closed loop cooling systems
- Plate & frame cooling systems
- Shell & tube cooling systems
- Liquid pumping systems

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