



# High Inlet Temperature Refrigerated Air Dryers

*HTD Series*

## Cool, Dry and Clean Your Compressed Air Supply in a Single, Compact Package

- Replaces separate aftercooler, separator, dryer and filter
- Ideal for auto body shops, auto service centers and commercial and industrial facilities with 5 to 30 horsepower compressors

### *Clean, Dry Air*

- Prevents surface blemishes and poor paint adhesion caused by wet air
- Makes air tools last longer...protects your investment in pneumatic equipment
- Allows compressed air equipment to work at peak efficiency
- Eliminates the need to install and maintain point-of-use filters, separators or extractors
- Keeps sandblasters from clogging

## The Deltech HTD Series Dryer Offers:

A complete air treatment system - replaces four separate components

- Cools...accepts high temperature air to 180°F, 82°C directly from your air compressor... no separate aftercooler and separator required
- Dries...removes moisture...eliminates troublesome water from downstream air lines and equipment
- Cleans...an integral 3 micron filter removes solid contaminants and 60% of oil aerosols

### *Easy to Select*

- Pre-engineered systems...no need to select, purchase, install, and maintain separate components
- Models matched to common compressor sizes
- Capacities also shown for units installed in systems with aftercoolers (100°F, 38°C inlet)

### *Easy to Install*

- Compact, free standing cabinet with feet saves valuable floor space
- No separate components to pipe together...simply connect inlet and outlet connections to the air system, plug in and it's ready to operate

### *Easy to Operate*

- Continuously dries and cleans without adjustments
- On/Off switch - turns on all components
- Fault Light - indicates overload or system malfunction

### *Easy to Maintain*

- Simple filter sleeve replacement
- Includes cleanable refrigeration condenser filter and cleanable inlet strainer



## Designed and Built to Run Reliably for Years

- Compact, highly efficient heat exchangers...no internal mesh to foul...heat exchange efficiency increased by creating helix flow paths in counterflow arrangement
- Two stage separator/filter removes condensed oil and water over a wide range of flows
- Reliable condensate drain - air operated...automatically discharges water and oil from dryer without air loss...no timer to adjust
- Automatic refrigeration temperature control system maintains precise chilled air temperature - never needs adjusted for load, ambient or seasonal changes - no freeze-ups
- Fan switch - allows operation in low (35°F, 2°C) ambients, saves energy at low loads
- Hermetic refrigeration system - requires no maintenance, no adjustments, operates as reliably as your home refrigerator
- Air reheated to save energy and prevent pipe sweating

## Capacity for Flows Based on 180°F, 82°C Inlet

Model	Flow Capacity scfm <sup>1</sup> @ 175 psig		Recommended Air Compressor Size hp		Flow Capacity scfm <sup>1</sup> @ 150 psig		Recommended Air Compressor Size hp		Flow Capacity scfm <sup>1</sup> @ 125 psig		Recommended Air Compressor Size hp		Flow Capacity scfm <sup>1</sup> @ 100 psig		Recommended Air Compressor Size hp	
	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz
	<b>HTD20</b>	23	20	5	5	22	18	5	5	20	17	5	5	18	15	5
<b>HTD25</b>	29	24	7.5	7.5	27	23	7.5	7.5	25	21	7.5	5	23	19	5	5
<b>HTD35</b>	41	31	10	7.5	38	29	10	7.5	35	27	10	7.5	32	24	7.5	7.5
<b>HTD50</b>	58	58	15	15	54	54	15	15	50	50	15	10	45	45	10	10
<b>HTD75</b>	87	71	20	20	81	66	20	15	75	61	20	15	68	5	15	15
<b>HTD100</b>	116	97	25	25	108	90	25	20	100	83	25	20	91	76	20	15
<b>HTD125</b>	145	121	30	30	135	112	30	30	125	104	30	25	114	95	25	20

For typical applications where there is NO aftercooler installed upstream

<sup>1</sup> Capacity @ 180°F (82°C) inlet temperature, 160°F (71°C) inlet pressure dew point, 95°F (35°C) ambient temperature, 50°F (10°C) outlet pressure dew point, and less than 5 psi (0.35 kgf/cm<sup>2</sup>) pressure drop.

## Capacity for Flows Based on 100°F, 38°C Inlet

Model	Flow Capacity scfm <sup>1</sup> @ 175 psig		Recommended Air Compressor Size hp		Flow Capacity scfm <sup>1</sup> @ 150 psig		Recommended Air Compressor Size hp		Flow Capacity scfm <sup>1</sup> @ 125 psig		Recommended Air Compressor Size hp		Flow Capacity scfm <sup>1</sup> @ 100 psig		Recommended Air Compressor Size hp	
	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz
	<b>HTD20</b>	32	27	10	7.5	30	25	7.5	7.5	28	23	7.5	7.5	25	21	7.5
<b>HTD25</b>	40	33	10	10	37	31	10	7.5	34	29	10	7.5	31	26	7.5	7.5
<b>HTD35</b>	55	43	15	10	51	40	15	10	47	37	10	10	43	33	10	10
<b>HTD50</b>	78	78	20	20	73	73	20	20	67	67	15	15	61	61	15	15
<b>HTD75</b>	118	96	25	25	110	90	25	25	102	83	25	20	92	75	20	20
<b>HTD100</b>	157	131	30	30	146	122	30	30	136	113	30	25	123	102	25	20
<b>HTD125</b>	197	164	40	40	183	152	40	30	170	142	40	30	155	129	30	25

For typical applications where an aftercooler is installed upstream

<sup>1</sup> Capacity @ 100°F (38°C) inlet temperature, 100°F (38°C) inlet pressure dew point, 100°F (38°C) ambient temperature, 50°F (10°C) outlet pressure dew point, and less than 10 psi (0.7 kgf/cm<sup>2</sup>) pressure drop.

## HTD Series Product Specifications

Model	Power Requirements		Maximum Working Pressure	Maximum Inlet Temperature	Ambient Temperature Range	In / Out Connections NPT or BSP	Dimensions						Weight	
	115V/1ph/60Hz	220-240V/1ph/50Hz					H		W		D		lbs.	kg
	kW	kW					in.	mm	in.	mm	in.	mm		
<b>HTD20</b>	0.73	0.60	250 psig 17.6 kg/cm <sup>2</sup>	180°F 82°C	35°F - 110°F 2°C - 43°C	1/2"	28	718	10	257	13	327	79	36
<b>HTD25</b>	0.73	0.60				1/2"	28	718	10	257	13	327	80	36
<b>HTD35</b>	0.73	0.60				1/2"	28	718	10	257	13	327	81	37
<b>HTD50</b>	1.37	1.08				3/4"	37	933	17	429	17	429	150	68
<b>HTD75</b>	1.37	1.08				3/4"	37	933	17	429	17	429	155	70
<b>HTD100</b>	-	2.11				3/4"	46	1162	17	429	17	429	170	77
<b>HTD125</b>	-	2.11	3/4"	46	1162	17	429	17	429	175	80			



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