SPX®

High Inlet Temperature Refrigerated Air Dryers

HTD SERIES

Deltech®

Deltech HTD Series Air Dryers

This complete air treatment system replaces four separate components; the aftercooler, separator, dryer and filter, with one compact package.

The HTD Series dryers are ideal for auto body shops, auto service centers, commercial and industrial facilities currently utilizing 5 to 30 HP compressors. Guaranteed to cool, dry and clean your compressed air Deltech's HTD Series dryers are the smart choice!

Cool, Dry and Clean Your Compressed Air

- Accepts high temperature air to 180°F, 82°C directly from your air compressor
  - » Allows compressed air equipment to work at peak efficiency
- Removes moisture and eliminates troublesome water from downstream air lines and equipment
  - » Prevents surface blemishes and poor paint adhesion caused by wet air
- Two stage integral 3 micron filter/separator removes solid contaminants and 60% of oil aerosols over a wide range of flows
  - » Protects your investment in pneumatic equipment by making air tools last longer
  - » Eliminates the need to install and maintain point-of-use filters, separators or extractors

HTD Series: Clean, Dry Air Delivered!

Compact Design, Superior Results

Easy to Select

- Pre-engineered systems
- 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, connect inlet and outlet connections to the air system, plug in and it's ready to operate

Easy to Operate

- Continuously dries and cleans withoutadjustments
- On/Off switch - turns on all components
- Fault Light - indicates overload or system malfunction
- Automatic refrigeration temperature control system maintains precise chilled air temperature, no adjustments for load, ambient or seasonal changes and never freezes
- Fan switch - allows operation in low (35°F, 2°C)ambients, saves energy at low loads
- Allows compressed air equipment to work at peak efficiency

Easy to Maintain

- Simple filter sleeve replacement
- Cleanable refrigeration condenser filter and inlet strainer
- Compact, efficient heat exchangers--no internal mesh to foul
- Hermetic refrigeration system requires no maintenance or adjustments
- Air-operated condensate drain automatically discharges water and oil from dryer without air loss
- Air reheated to save energy and prevent pipe sweating

HTD Series Specifications

Precision Craftmanship at Work

- 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...notimer 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[1] @ 175 psig		Recommended Air Compressor Size hp		Flow Capacity scfm[1] @ 150 psig		Recommended Air Compressor Size hp		Flow Capacity scfm[1] @ 125 psig		Recommended Air Compressor Size hp		Flow Capacity scfm[1] @ 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
HTD20	23	20	5	5	22	18	5	5	20	17	5	5	18	15	5	5
HTD25	29	24	7.5	7.5	27	23	7.5	7.5	25	21	7.5	5	23	19	5	5
HTD35	41	31	10	7.5	38	29	10	7.5	35	27	10	7.5	32	24	7.5	7.5
HTD50	58	58	15	15	54	54	15	15	50	50	15	10	45	45	10	10
HTD75	87	71	20	20	81	66	20	15	75	61	20	15	68	5	15	15
HTD100	116	97	25	25	108	90	25	20	100	83	25	20	91	76	20	15
HTD125	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

1 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 psig (0.35 bar) pressure drop.

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

Model	Flow Capacity scfm[1] @ 175 psig		Recommended Air Compressor Size hp		Flow Capacity scfm[1] @ 150 psig		Recommended Air Compressor Size hp		Flow Capacity scfm[1] @ 125 psig		Recommended Air Compressor Size hp		Flow Capacity scfm[1] @ 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
HTD20	32	27	10	7.5	30	25	7.5	7.5	28	23	7.5	7.5	25	21	7.5	5
HTD25	40	33	10	10	37	31	10	7.5	34	29	10	7.5	31	26	7.5	7.5
HTD35	55	43	15	10	51	40	15	10	47	37	10	10	43	33	10	10
HTD50	78	78	20	20	73	73	20	20	67	67	15	15	61	61	15	15
HTD75	118	96	25	25	110	90	25	25	102	83	25	20	92	75	20	20
HTD100	157	131	30	30	146	122	30	30	136	113	30	25	123	102	25	20
HTD125	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

1 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 psig (0.7 bar) pressure drop.

HTD Series Product Specifications

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

SPX®

Global locations

USA

SPX FLOW TECHNOLOGY

1000 Philadelphia Street

Canonsburg, PA 15317-1700 U.S.A.

P: (724) 745-8647

F: (724) 745-4967

E: deltech.inquiry@spx.com

CANADA

SPX FLOW TECHNOLOGY CANADA

1415 California Avenue

Brockville, on, Canada, k6v 7h7

P: (800) 267-3884

F: (724) 745-4967

E: salescanada@spx.com

EMEA

SPX FLOW TECHNOLOGY MOERS GMBH

Konrad-Zuse-Straße 25

D-47445 Moers, Germany

P: +49 (0) 28 41 / 819-0

F: +49 (0) 28 41 / 87112

E: csc@dehydration.spx.com

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader. For more information, please visit www.spx.com

SPX FLOW TECHNOLOGY

SPX Flow Technology

1000 Philadelphia Street

Canonsburg, PA 15317-1700 U.S.A.

www.deltech-spx.com

www.spx.com

P: (724) 745-8647

F: (724) 745-4967

E: deltech.inquiry@spx.com

ISSUED 11/2012 HTD