

HDE SERIES

Heavy-Duty Industrial Air Conditioners

HDT[®]
GLOBAL



The HDT Nordic HDE Series industrial air conditioners are strong, dependable, water-cooled units that are built to operate in the harsh environments of concrete and cement production plants, steel mills and paper mills – anywhere corrosion, extreme temperatures, high humidity, high levels of air-laten particulate and excessive vibration are a concern.

HDE Series air conditioners are available in capacities of 3, 5, 8, 10, 15 and 20 tons. The 3- and 5-ton units use a single scroll compressor, and the 8-, 10-, 15- and 20-ton units use dual scroll compressors. The cabinet of every HDE Series unit is built with 16-gauge G-90 galvanized steel that is powder-coated for additional protection.

KEY FEATURES

- 10 fin-per-inch evaporator coil for superior air flow and resistance to dirt and corrosion build-up
- Epoxy-coated evaporator coils to protect against corrosion and extend coil life.
- Tool-free removable service doors (optional sealed doors are available on all units)
- Long-life scroll compressors on all models
- Totally enclosed blower motors
- Stainless steel drain pan that resists rust
- High and low pressure switches to protect costly components from damage
- Electrical junction box with controls
- Supply air plenums and duct heaters are available for all units

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R134A Models	SVWC3-SC-51HDE	SVWC5-SC-51HDE	SVWC5-SC-53HDE	SVWC8-SC-51HDE
Capacity*	36,000 BTU/H 10.55 kW	60,000 BTU/H 17.58 kW	60,000 BTU/H 17.58 kW	96,000 BTU/H 28.13 kW
Air Flow**	1,200 CFM 2,038.8 m ³ /h	2,000 CFM 3,398 m ³ /h	2,000 CFM 3,398 m ³ /h	3,200 CFM 5,437 m ³ /h
Physical Characteristics				
H x W x D	73.5" x 42" x 25.5" 186.7 x 106.7 x 64.8 cm	73.5" x 42" x 25.5" 186.7 x 106.7 x 64.8 cm	73.5" x 42" x 25.5" 186.7 x 106.7 x 64.8 cm	75.5" x 55" x 29" 191.8 x 139.7 x 73.7 cm
Weight	550 lbs / 249.5 kg	550 lbs / 249.5 kg	550 lbs / 249.5 kg	850 lbs / 385.6 kg
Water Line Diameter (Qty)	3/4" (x1)	3/4" (x1)	3/4" (x1)	3/4" (x2)
Refrigerant	R134A	R134A	R134A	R134A
Electrical				
Voltage	460-3-60 Hz	460-3-60 Hz	208/230-3-60 Hz	460-3-60 Hz
Minimum Wire Ampacity	17.5 AMPS	20.8 AMPS	47.3 AMPS	45 AMPS
Maximum Circuit Breaker Size	20 AMPS	25 AMPS	50 AMPS	50 AMPS

R134A Models	SVWC10-SC-51HDE	SVWC15-SC-51HDE	SVWC20-SC-51HDE
Capacity*	120,000 BTU/H 35.17 kW	180,000 BTU/H 52.75 kW	240,000 BTU/H 70.34 kW
Air Flow**	4,000 CFM 6,796 m ³ /h	6,000 CFM 10,194 m ³ /h	8,000 CFM 13,592 m ³ /h
Physical Characteristics			
H x W x D	75.5" x 55" x 29" 191.8 x 139.7 x 73.7 cm	86" x 79" x 27" 218.4 x 200.6 x 68.6 cm	89" x 85" x 32" 226.1 x 215.9 x 81.1 cm
Weight	970 lbs 439.9 kg	1,200 lbs 544.3 kg	1,450 lbs 657.7 kg
Water Line Diameter (Qty)	3/4" (x2)	1" (x2)	1-1/4" (x2)
Refrigerant	R134A	R134A	R134A
Electrical			
Voltage	460-3-60 Hz	460-3-60 Hz	460-3-60 Hz
Minimum Wire Ampacity	45 AMPS	65 AMPS	85 AMPS
Maximum Circuit Breaker Size	50 AMPS	70 AMPS	100 AMPS

* BTU/H @ max 85 degree entering water to condenser, 80/67 evaporator

** CFM rating @ 0.5 sp

Note: If unit is supplied with a distribution air plenum add 12" to the height

Corrosive Environment Sealed Door Models	SVWC3-SC-51HDE-CED	SVWC5-SC-51HDE-CED	SVWC5-SC-53HDE-CED	SVWC8-SC-51HDE-CED
Capacity*	36,000 BTU/H 10.55 kW	60,000 BTU/H 17.58 kW	60,000 BTU/H 17.58 kW	96,000 BTU/H 28.13 kW
Air Flow**	1,200 CFM 2,038.8 m ³ /h	2,000 CFM 3,398 m ³ /h	2,000 CFM 3,398 m ³ /h	3,200 CFM 5,437 m ³ /h
Physical Characteristics				
H x W x D	73.5" x 42" x 25.5" 186.7 x 106.7 x 64.8 cm	73.5" x 42" x 25.5" 186.7 x 106.7 x 64.8 cm	73.5" x 42" x 25.5" 186.7 x 106.7 x 64.8 cm	75.5" x 55" x 29" 191.8 x 139.7 x 73.7 cm
Weight	550 lbs / 249.5 kg	550 lbs / 249.5 kg	550 lbs / 249.5 kg	850 lbs / 385.6 kg
Water Line Diameter (Qty)	3/4" (x1)	3/4" (x1)	3/4" (x1)	3/4" (x2)
Refrigerant	R134A	R134A	R134A	R134A
Electrical				
Voltage	460-3-60 Hz	460-3-60 Hz	208/230-3-60 Hz	460-3-60 Hz
Minimum Wire Ampacity	17.5 AMPS	20.8 AMPS	47.3 AMPS	45 AMPS
Maximum Circuit Breaker Size	20 AMPS	25 AMPS	50 AMPS	50 AMPS

Corrosive Environment Sealed Door Models	SVWC10-SC-51HDE-CED	SVWC15-SC-51HDE-CED	SVWC20-SC-51HDE-CED
Capacity*	120,000 BTU/H 35.17 kW	180,000 BTU/H 52.75 kW	240,000 BTU/H 70.34 kW
Air Flow**	4,000 CFM 6,796 m ³ /h	6,000 CFM 10,194 m ³ /h	8,000 CFM 13,592 m ³ /h
Physical Characteristics			
H x W x D	75.5" x 55" x 29" 191.8 x 139.7 x 73.7 cm	86" x 79" x 27" 218.4 x 200.6 x 68.6 cm	89" x 85" x 32" 226.1 x 215.9 x 81.1 cm
Weight	970 lbs 439.9 kg	1,200 lbs 544.3 kg	1,450 lbs 657.7 kg
Water Line Diameter (Qty)	3/4" (x2)	1" (x2)	1-1/4" (x2)
Refrigerant	R134A	R134A	R134A
Electrical			
Voltage	460-3-60 Hz	460-3-60 Hz	460-3-60 Hz
Minimum Wire Ampacity	45 AMPS	65 AMPS	85 AMPS
Maximum Circuit Breaker Size	50 AMPS	70 AMPS	100 AMPS

* BTU/H @ max 85 degree entering water to condenser, 80/67 evaporator

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Note: If unit is supplied with a distribution air plenum add 12" to the height

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R410A Models*	SVWC3-SC-91HDE	SVWC5-SC-91HDE	SVWC8-SC-91HDE
Capacity**	36,000 BTU/H 10.55 kW	60,000 BTU/H 17.58 kW	96,000 BTU/H 28.13 kW
Air Flow***	1,200 CFM 2,038.8 m ³ /h	2,000 CFM 3,398 m ³ /h	3,200 CFM 5,437 m ³ /h
Physical Characteristics			
H x W x D	73.5" x 42" x 25.5" 186.7 x 106.7 x 64.8 cm	73.5" x 42" x 25.5" 186.7 x 106.7 x 64.8 cm	75.5" x 55" x 29" 191.8 x 139.7 x 73.7 cm
Weight	550 lbs / 249.5 kg	550 lbs / 249.5 kg	850 lbs / 385.6 kg
Water Line Diameter (Qty)	3/4" (x1)	3/4" (x1)	3/4" (x2)
Refrigerant	R410A	R410A	R410A
Electrical			
Voltage	460-3-60 Hz	460-3-60 Hz	460-3-60 Hz
Minimum Wire Ampacity	10.5 AMPS	18 AMPS	25 AMPS
Maximum Circuit Breaker Size	12 AMPS	20 AMPS	30 AMPS

R410A Models	SVWC10-SC-91HDE	SVWC15-SC-91HDE	SVWC20-SC-91HDE
Capacity*	120,000 BTU/H 35.17 kW	180,000 BTU/H 52.75 kW	240,000 BTU/H 70.34 kW
Air Flow**	4,000 CFM 6,796 m ³ /h	6,000 CFM 10,194 m ³ /h	8,000 CFM 13,592 m ³ /h
Physical Characteristics			
H x W x D	75.5" x 55" x 29" 191.8 x 139.7 x 73.7 cm	86" x 79" x 27" 218.4 x 200.6 x 68.6 cm	89" x 85" x 32" 226.1 x 215.9 x 81.1 cm
Weight	970 lbs 439.9 kg	1,200 lbs 544.3 kg	1,450 lbs 657.7 kg
Water Line Diameter (Qty)	3/4" (x2)	1" (x2)	1-1/4" (x2)
Refrigerant	R410A	R410A	R410A
Electrical			
Voltage	460-3-60 Hz	460-3-60 Hz	460-3-60 Hz
Minimum Wire Ampacity	327 AMPS	44 AMPS	65 AMPS
Maximum Circuit Breaker Size	30 AMPS	50 AMPS	70 AMPS

* All R410A models are available with sealed doors. Add -CED to the part number to order.

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