

# NORDIC AIR HDE SERIES

*Heavy-Duty Economy  
Industrial Air Conditioners*

**BRONZE  
SERIES**



The HDT Nordic Air **HDE Series** industrial air conditioners are strong, dependable, **water-cooled** units that are built to operate in harsh environments where corrosion, extreme temperatures, high humidity, high levels of air-latent particulate and excessive vibration are a concern.

**HDE Series** are built to withstand the most demanding corrosive environments and harsh conditions found in:

- Steel mills
- Pulp and paper mills
- Foundries
- Coke making
- Motor control centers
- Cement plants
- Aluminum mills
- Mining
- Copper smelting
- Magnesium plants
- Plywood plants
- Refineries
- Lime plants
- Chemical plants
- Power plants
- Corn processing plants
- Printing plants
- Auto plants
- Wood lot operator stations
- Ports and offshore marine
- Countless more

**HDE Series** air conditioners are available in capacities of **3, 5, 8, 10, 15 and 20 tons**. The units all have scroll compressors and the 3- and 5-ton units use a single circuit design and the 8-, 10-, 15-, and 20-ton units use a dual circuit design. HDE units have 10 fins per inch, epoxy-coated evaporator coils that protect against corrosion and offer superior air flow and resistance to dirt and corrosion build-up which helps to extend the coil life. The cabinet is built with 16-gauge G-90 galvanized steel that is powder-coated for additional protection.

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### 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
- **R-134a or R-410a refrigerant**
- Powder coated, 16 gauge, G90 galvanized steel cabinet
- Coaxial copper tube condenser
- Long-life scroll compressors
- Tool-free removable service doors
- Totally enclosed blower motors
- 2" pleated MERV filter
- Schrader® service valves
- Stainless steel drain pan that resists rust
- High and low pressure switches to protect costly components from damage
- Electrical junction box with general purpose controls
- Return air filters
- Permanent heavy gauge steel fork pocket base
- Sealed ball bearings on blower shafts
- Water regulating valves

### OPTIONAL FEATURES

- **Various sized, electric, open coil duct heaters up to 20kW**
- **Cupronickel coaxial tube condenser**
- Positive-sealed, removable, service doors with captive fasteners
- Supply air plenums
- Freestanding or ducted configurations
- Remote room thermometer
- Corrosive environment builds available in all sizes

R410A Models*	SVWC3-SC-91HDE	SVWC5-SC-91HDE	SVWC8-SC-91HDE	SVWC10-SC-91HDE	SVWC15-SC-91HDE	SVWC20-SC-91HDE
<b>Capacity**</b>	36,000 BTU/H 10.55 kW	60,000 BTU/H 17.58 kW	96,000 BTU/H 28.13 kW	120,000 BTU/H 35.17 kW	180,000 BTU/H 52.75 kW	240,000 BTU/H 70.34 kW
<b>Tonnage</b>						
<b>Air Flow***</b>	1,200 CFM 2,038.8 m³/h	2,000 CFM 3,398 m³/h	3,200 CFM 5,437 m³/h	4,000 CFM 6,796 m³/h	6,000 CFM 10,194 m³/h	8,000 CFM 13,592 m³/h
<b>Physical Characteristics</b>						
H x W x D	74" x 42" x 26" 187 x 107 x 65 cm	74" x 42" x 26" 187 x 107 x 65 cm	76" x 55" x 29" 192 x 140 x 74 cm	76" x 55" x 29" 192 x 140 x 74 cm	86" x 79" x 27" 218 x 201 x 69 cm	89" x 85" x 32" 226 x 216 x 81 cm
Weight	550 lbs / 250 kg	550 lbs / 250 kg	850 lbs / 386 kg	970 lbs 440 kg	1,200 lbs 544 kg	1,450 lbs 658 kg
<b>Operating Temperature Range</b>						
<b>Return Temperature Range</b>						
<b>Motor HP</b>						
<b>Refrigerant</b>	R410A	R410A	R410A	R410A	R410A	R410A
<b>Electrical</b>						
Voltage	460-3-60 Hz	460-3-60 Hz	460-3-60 Hz	460-3-60 Hz	460-3-60 Hz	460-3-60 Hz
Minimum Wire Ampacity	10.5 AMPS	18 AMPS	25 AMPS	327 AMPS	44 AMPS	65 AMPS
Maximum Circuit Breaker Size	12 AMPS	20 AMPS	30 AMPS	30 AMPS	50 AMPS	70 AMPS
<b>Water Line Diameter (Qty)</b>	3/4" (x1)	3/4" (x1)	3/4" (x2)	3/4" (x2)	1" (x2)	1-1/4" (x2)

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

\*\* 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

R134A Models	SVWC3-SC-51HDE	SVWC5-SC-51HDE	SVWC5-SC-53HDE	SVWC8-SC-51HDE
<b>Capacity*</b>	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
<b>Tonnage</b>				
<b>Air Flow**</b>	1,200 CFM 2,039 m <sup>3</sup> /h	2,000 CFM 3,398 m <sup>3</sup> /h	2,000 CFM 3,398 m <sup>3</sup> /h	3,200 CFM 5,437 m <sup>3</sup> /h
<b>Physical Characteristics</b>				
H x W x D	74" x 42" x 26" 187 x 107 x 65 cm	74" x 42" x 26" 187 x 107 x 65 cm	74" x 42" x 26" 187 x 107 x 65 cm	76" x 55" x 29" 192 x 140 x 74 cm
Weight	550 lbs / 250 kg	550 lbs / 250 kg	550 lbs / 250 kg	850 lbs / 386 kg
<b>Operating Temperature Range</b>				
<b>Return Temperature Range</b>				
<b>Motor HP</b>				
<b>Refrigerant</b>	R134A	R134A	R134A	R134A
<b>Electrical</b>				
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
<b>Water Line Diameter (Qty)</b>	3/4" (x1)	3/4" (x1)	3/4" (x1)	3/4" (x2)

R134A Models	SVWC10-SC-51HDE	SVWC15-SC-51HDE	SVWC20-SC-51HDE
<b>Capacity*</b>	120,000 BTU/H 35.17 kW	180,000 BTU/H 52.75 kW	240,000 BTU/H 70.34 kW
<b>Tonnage</b>			
<b>Air Flow**</b>	4,000 CFM 6,796 m <sup>3</sup> /h	6,000 CFM 10,194 m <sup>3</sup> /h	8,000 CFM 13,592 m <sup>3</sup> /h
<b>Physical Characteristics</b>			
H x W x D	76" x 55" x 29" 192 x 140 x 74 cm	86" x 79" x 27" 218 x 201 x 69 cm	89" x 85" x 32" 226 x 216 x 81 cm
Weight	970 lbs 439.9 kg	1,200 lbs 544.3 kg	1,450 lbs 657.7 kg
<b>Operating Temperature Range</b>			
<b>Return Temperature Range</b>			
<b>Motor HP</b>			
<b>Refrigerant</b>	R134A	R134A	R134A
<b>Electrical</b>			
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
<b>Water Line Diameter (Qty)</b>	3/4" (x2)	1" (x2)	1-1/4" (x2)

\* 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

# NORDIC AIR HDE SERIES

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Corrosive Environment Sealed Door Models	SVWC3-SC-51HDE-CED	SVWC5-SC-51HDE-CED	SVWC5-SC-53HDE-CED	SVWC8-SC-51HDE-CED
<b>Capacity*</b>	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
<b>Tonnage</b>				
<b>Air Flow**</b>	1,200 CFM 2,039 m <sup>3</sup> /h	2,000 CFM 3,398 m <sup>3</sup> /h	2,000 CFM 3,398 m <sup>3</sup> /h	3,200 CFM 5,437 m <sup>3</sup> /h
<b>Physical Characteristics</b>				
H x W x D	74" x 42" x 26" 187 x 107 x 65 cm	74" x 42" x 26" 187 x 107 x 65 cm	74" x 42" x 26" 187 x 107 x 65 cm	76" x 55" x 29" 192 x 140 x 74 cm
Weight	550 lbs / 250 kg	550 lbs / 250 kg	550 lbs / 250 kg	850 lbs / 386 kg
<b>Operating Temperature Range</b>				
<b>Return Temperature Range</b>				
<b>Motor HP</b>				
<b>Refrigerant</b>	R134A	R134A	R134A	R134A
<b>Electrical</b>				
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
<b>Water Line Diameter (Qty)</b>	3/4" (x1)	3/4" (x1)	3/4" (x1)	3/4" (x2)

Corrosive Environment Sealed Door Models	SVWC10-SC-51HDE-CED	SVWC15-SC-51HDE-CED	SVWC20-SC-51HDE-CED
<b>Capacity*</b>	120,000 BTU/H 35.17 kW	180,000 BTU/H 52.75 kW	240,000 BTU/H 70.34 kW
<b>Tonnage</b>			
<b>Air Flow**</b>	4,000 CFM 6,796 m <sup>3</sup> /h	6,000 CFM 10,194 m <sup>3</sup> /h	8,000 CFM 13,592 m <sup>3</sup> /h
<b>Physical Characteristics</b>			
H x W x D	75.5" x 55" x 29" 192 x 140 x 74 cm	86" x 79" x 27" 219 x 201 x 69 cm	89" x 85" x 32" 226 x 216 x 81 cm
Weight	970 lbs 440 kg	1,200 lbs 544 kg	1,450 lbs 658 kg
<b>Operating Temperature Range</b>			
<b>Return Temperature Range</b>			
<b>Motor HP</b>			
<b>Refrigerant</b>	R134A	R134A	R134A
<b>Electrical</b>			
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
<b>Water Line Diameter (Qty)</b>	3/4" (x2)	1" (x2)	1-1/4" (x2)

\* 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

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NON-EXPORT CONTROLLED INFORMATION

Revision 5 05-24 01-05-01-0293