

# NORDIC AIR HDR SERIES

*Robust Series Industrial Air Conditioners*

## PLATINUM SERIES



The HDT Nordic Air **HDR Series** are **highly-customizable**, rugged and heavy-duty industrial air conditioners designed to withstand the most demanding environments. Available as either an **air- or water-cooled system**, the **HDR Series** are built to withstand the 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 plant
- Power plants
- Corn processing plants
- Printing plants
- Auto plants
- Wood lot operator stations
- Ports and offshore marine
- Countless more

The **HDR Series** is available as a **package or split system** with capacities ranging from **5 to 60 tons** for a unit that is completely **customized** to the needs of the customer. HDR 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

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## KEY FEATURES

- **8 fin-per-inch air-cooled condenser coil, 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 refrigerant**
- Powder coated, 16 gauge, G90 galvanized steel cabinet and chassis
- Coaxial copper tube condenser
- Long-life scroll compressors
- Positive-seal, compression lock, easy-access, removable service doors with captive fasteners
- Totally enclosed blower motors
- Available in multiple voltages – 230/1/60 Hz, 230/3/60 Hz, 460/3/60 Hz, 575/3/60 Hz, 380/3/50 Hz
- Vertical or horizontal configuration
- Schrader® service valves
- Stainless steel drain pan that resists rust
- High and low pressure safety switches to protect costly components from damage
- Mounted or remote IEC controls in NEMA enclosure
- Remote thermostats
- Compressor crankcase heater
- Filter driers with flare fittings and isolation valves (no brazing or burn permit required)
- Return air filters
- External, single stage filter box with removable end covers
- Permanent heavy gauge steel fork pocket base
- Two-part / take apart type “H” TXV’s with flare fittings and isolation valves (no burning or burn permit required)
- Serviceable, pillow-block blower shaft bearings with extended grease fittings to the exterior of the cabinet
- Exterior cabinet liquid refrigerant circuit sight glass
- Water regulator valves
- 8 ton and larger units staged for capacity control
- VFD low ambient controls provided on all air-cooled units

## OPTIONAL FEATURES

- **R-410a or R-407c refrigerant**
- **Various sized, electric, open coil duct heaters**
- **SCR Controlled – electric finned tubular KW heaters**
- **Cupronickel coaxial tube condenser**
- **Shell and tube condensers or marine service condensers on water-cooled units**
- **Semi-hermetic compressors**
- **Split configuration for condensers and air handlers**
- **Stainless steel cabinet**
- Corrosion protection on blower housing and copper plumbing
- Digital hot gas bypass
- NEMA-12, NEMA-4, or NEMA-4X enclosures with NEMA controls
- PLC unit control
- Independent dual blowers/dual motors with external backdraft dampers
- Maintains specific humidity levels from 40-45%
- 2” or 4” pleated MERV filter
- Distribution supply air plenum
- Smoke detector with fire alarm sensor
- Fused disconnect switch
- Magnahelic gauges with air differential switch across filter bank
- Custom designs available, consult factory

## VERTICAL

	Dimensions HxWxD	Weight <sup>2</sup>	Tonnage	BTU/H	Airflow (cfm)	Power	Operating Temp. Range	Return Temp. Range	HP	Water Line
<b>AIR-COOLED</b>										
SVAC5	67.5" x 40" x 29" 172 x 102 x 74 cm	660 lbs 299 kg				25.33A FLA, 30A MFS				n/a
SVAC8	77" x 60" x 29" 196 x 152 x 74 cm	985 lbs 447 kg				40.63A FLA, 50A MFS				n/a
SVAC10	77" x 60" x 29" 196 x 152 x 74 cm	1,000 lbs 454 kg				49.45A FLA 60A MFS				n/a
SVAC15	81" x 78" x 32" 205 x 198 x 81 cm	1,450 lbs 658 kg				83.2A FLA, 100A MFS				n/a
SVAC20	98" x 83" x 33" 249 x 211 x 83 cm	1,650 lbs 748 kg				89.95A FLA, 100A MFS				n/a
SVAC25	98" x 83" x 37" 249 x 210 x 92 cm	2,560 lbs 1,161 kg				110.95A FLA, 125A MFS				n/a
SVAC30	129" x 109" x 44" 328 x 277 x 111 cm					130A FLA, 150A MFS				n/a
<b>WATER-COOLED</b>										
SVWC3										3/4"
SVWC5	50" x 40" x 29" 126 x 102 x 74 cm	610 lbs 277 kg				22.25A FLA, 25A MFS				3/4"
SVWC8	62" x 60" x 29" 157 x 153 x 74 cm	810 lbs 367 kg				36.53A FLA, 45A MFS				3/4" x 2
SVWC10	62" x 60" x 29" 157 x 153 x 74 cm	975 lbs 442 kg				42.35A FLA, 50A MFS				3/4" x 2
SVWC15	56" x 78" x 32" 143 x 198 x 81 cm	1,320 lbs 599 kg				76.1A FLA, 90A MFS				1" x 2
SVWC20	69" x 83" x 33" 175 x 211 x 83 cm	1,485 lbs 674 kg				82.85A FLA, 90A MFS				1 1/4" x 2
SVWC25	69" x 83" x 37" 175 x 211 x 93 cm	1,925 lbs 873 kg				100.85A FLA, 110A MFS				1 1/4" x 2
SVWC30	79" x 109" x 44" 201 x 277 x 111 cm					113A FLA, 135 MFS				1 1/4" x 3
SVWC40	94" x 109" x 44" 239 x 277 x 111 cm	4,895 lbs 2,220 kg				141.55A FLA, 175A MFS				1 1/4" x 4
SVWC50	112" x 119" x 54" 285 x 302 x 136 cm					204A FLA, 250 MFS				
SVWC60	112" x 119" x 54" 285 x 302 x 136 cm					230A FLA, 275 MFS				

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### HORIZONTAL

	Dimensions HxWxD	Weight <sup>2</sup>	Tonnage	BTU/H	Airflow (cfm)	Power	Operating Temp. Range	Return Temp. Range	HP	Water Line <sup>1</sup>
<b>AIR-COOLED</b>										
SHAC5	29" x 60" x 82" 64 x 166 x 216 cm	760 lbs 345 kg				25.33A FLA, 30A MFS				n/a
SHAC8	75" x 91" x 34" 191 x 231 x 86 cm	1,200 lbs 544 kg				40.63A FLA, 50A MFS				n/a
SHAC10	75" x 91" x 34" 191 x 231 x 86 cm	1,320 lbs 599 kg				49.45A FLA, 60A MFS				n/a
SHAC15	98" x 128" x 38" 449 x 325 x 97 cm	1,765 lbs 801 kg				83.2A FLA, 100A MFS				n/a
<b>WATER-COOLED</b>										
SHWC5	23" x 65" x 36" 58 x 165 x 91 cm	465 lbs 211 kg				22.25A FLA, 25A MFS				3/4"
SHWC8	30" x 79" x 46" 76 x 201 x 117 cm	750 lbs 340 kg				36.53A FLA, 45A MFS				3/4" x 2
SHWC10	30" x 79" x 46" 76 x 201 x 117 cm	800 lbs 363 kg				42.35A FLA, 50A MFS				3/4" x 2
SHWC15	32" x 91" x 58" 81 x 232 x 147 cm	960 lbs 435 kg				76.10A FLA, 90A MFS				1" x 2

<sup>1</sup> Sizes are for connections at water valves only

<sup>2</sup> Weights are approximate as materials and features can cause weight to change

Products, product specifications and data are subject to change without notice to improve reliability, function, and/or design. Please contact Customer Service at 800.969.8527 for the most up-to-date product information.

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NON-EXPORT CONTROLLED INFORMATION

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