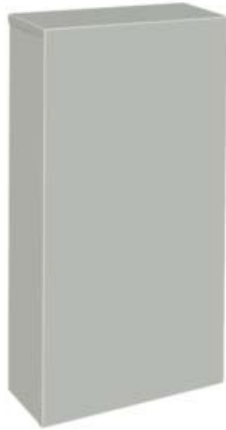


KPHE20 WATER-TO-AIR PANEL-MOUNTED HEAT EXCHANGERS



NEMA
TYPE 12 & 3R
MAINTAINED

TECHNICAL DATA*

| Model | Normally in Stock | Volts | Power | | Maximum Inlet Water Temp. °F | Performance Watts/°F | | Approx. Weight (lbs.) |
|---------|----------------------|-------|-------|-------|---------------------------------|-------------------------|---------|-----------------------------|
| | | | Amps | Watts | | 0.25GPM | 0.50GPM | |
| KPHE20 | Yes | 115 | 0.30 | 33 | 85 | 20.5 | 21.5 | 15 |
| K2PHE20 | | 230 | 0.13 | 25 | 85 | 20.5 | 21.5 | 15 |

* 60 Hz. operation. For 50 Hz. operation, consult Kooltronic.

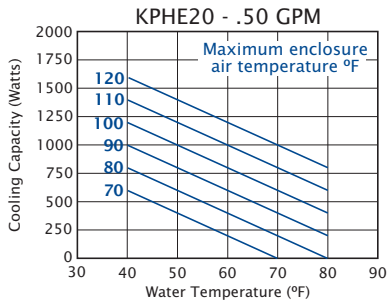
STANDARD FEATURES

Below-Ambient Cooling Capability
Closed-Loop Cooling
Heavy-Duty Steel Shell with
Baked Powder Finish
NEMA 12 & 3R Ratings Maintained (UL50)
UL/CSA Ball-Bearing Motors
UL/CUL Listed

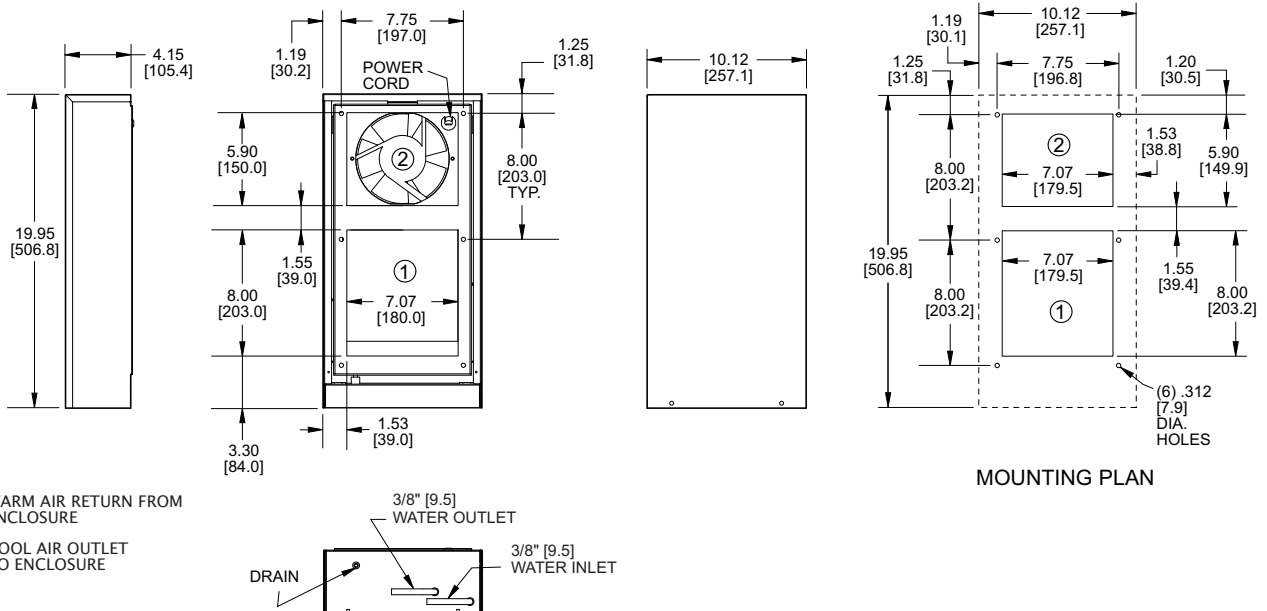
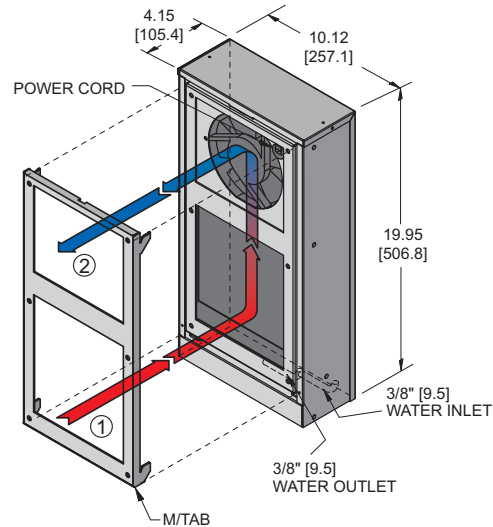
ACCESSORIES AND OPTIONS

Internal Corrosion Protection
Other voltages and frequencies
Special materials or finishes
Special motors, line cords, or
connectors

PERFORMANCE*



For performance at other flow rates contact the factory
or visit www.kooltronic.com.



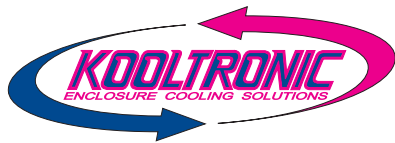
① WARM AIR RETURN FROM
ENCLOSURE

② COOL AIR OUTLET
TO ENCLOSURE

MOUNTING PLAN

Dimensions, inches [mm], are for reference only and subject to change.

kphe20.qxd (10/05/21) (CDR: 20359)



KPHE20 WATER-TO-AIR PANEL-MOUNTED HEAT EXCHANGERS

DESCRIPTION

KOOLTRONIC **Water-to-Air Heat Exchangers** provide uniform cooling in a closed-loop system where a reliable source of clean, cool water is available. The **KPHE Series** is designed primarily for use in harsh environments with cooling requirements in excess of the capabilities of **Air-to-Air Heat Exchangers**. They are particularly useful in highly contaminated environments that would require very frequent cleaning or changing of ambient air filters, or require frequent cleaning of the Heat Exchanger core. KOOLTRONIC **Water-to-Air Heat Exchangers** can furnish greater cooling capacities than air-to-air models, depending on water temperature and rate of flow. **Ambient air is sealed out; heat transfer surfaces remain clean.**

The higher cooling ability of the **KPHE Series** depends on the temperature of the cooling water. Thus, if the water is cold enough, the temperature of the air delivered to the electronics cabinet can actually be lower than that provided by air conditioners, at less cost.

KPHE Series Heat Exchangers are available in many types and capacities. A complete range of accessories and options is available for all units, adding to their versatility.

KOOLTRONIC also designs and manufactures a variety of Heat Exchangers to meet *unique* specifications. We invite your inquiries about our modification and custom-design capabilities.

STANDARD FEATURES

CLOSED-LOOP COOLING: The enclosure interior airflow system is isolated from the ambient airflow system. No ambient air can invade the cool, dehumidified sensitive component compartment.

PRECISION BALL-BEARING MOTORS: All blower motors are UL/CSA Recognized and include automatic-reset thermal overload protection and double-sealed or double-shielded precision ball bearings. Special permanent lubricants perform over a broad temperature range: -20°F [-28.9°C] to 250°F [121.1°C]. Consult KOOLTRONIC for motors designed to meet military or other extreme environmental specifications.

BLOWERS: All centrifugal blowers are Kooltronic-designed and built, to provide optimum airflow and pressure for each Heat Exchanger design.

RUGGED CONSTRUCTION: Precision-engineered heavy gauge steel construction of all shells and blowers insures Heat Exchangers will stand up under tough applications.

BAKED POWDER FINISH: Durable, baked-on gray powder finish is standard. Other finishes are available.

POWER: Available in 115 VAC, 60 Hz and 230 VAC, 50 Hz or 60 Hz.

POWER CORD: All 115 and 230VAC models are supplied with six-foot three-wire cord with plug. BLDC units have three-wire cords without plugs for direct wiring to power source. Special lengths and/or plugs are available.

GASKETING: All units are fully gasketed for tight, leakproof installation, in compliance with the NEMA 12 Enclosure Rating.

UL/CUL LISTED: All **KPHE20** models are **UL/CUL Listed**.

ACCESSORIES AND OPTIONS**

FACTORY-INSTALLED OPTIONS:

INTERNAL CORROSION PROTECTION: This protection increases reliability in hostile environments. This protection for the cooling system consists of an air cured coating applied to the brazed joints, providing a degree of protection from corrosive environments. This coating will withstand 1000 hours of salt spray per ASTM B 117 test method. Also see KNHE Series NEMA 4X Stainless Steel Heat Exchangers. **NOTE:** Severe operational environments such as waste water treatment and salt spray are likely to cause corrosion failure over a period of time regardless of coating. This coating provides protection to the external portion of the coil and does not protect from any corrosive elements in the cooling water used internally. **Warranty:** Corrosive conditions may affect the warranty coverage. Consult factory for warranty limitations in corrosive environments. **NOTE:** For additional corrosion protection options, contact factory.

Append letter "H" to Part No.

OTHER VOLTAGES AND FREQUENCIES**

SPECIAL MATERIALS OR FINISHES**

SPECIAL MOTORS, LINE CORDS OR CONNECTORS**

**Contact KOOLTRONIC for information.

HOW TO ORDER

Specify model number. NOTE: Accessories and Options may affect model number, contact KOOLTRONIC for information.

For assistance in model selection, refer to the Heat Exchanger Sizing and Selection Guide, contact KOOLTRONIC, or use one of our design aid software programs, available FREE.

CALL 1-800-321-KOOL (5665)
or FAX 609-466-1114



**POPULAR MODELS ARE
STOCKED AND READY TO SHIP**