CABINET:
Cabinet shall be fabricated of die formed heavy gauge welded steel and finished with durable powder coated paint. An internal shroud is provided around the heating element to ensure uniform airflow delivery across the entire face of heating elements. The enclosed motor and fan are isolated to minimize vibration and noise level. The control compartment is provided with a hinged and latched access door for easy installation and maintenance.

ELEMENTS:
Elements are all steel tubes with highest quality Nickel-Chromium resistance wire embedded in compacted efficient dielectric to ensure proper heat transfer. Steel helical fins are machine crimped and brazed to steel tube for effective transfer of heat.

MOTOR:
Motors shall be totally enclosed, all angle industrial rated. Motor is single phase with voltage rating same as heater primary voltage. Single speed permanently lubricated thermally protected motors with unit bearings on 3-10 KW units. Two speed thermally protected motors with sleeve bearings on 12.5 – 48 KW units. Sleeve bearing motors are lubricated for 5 years continuous or 10-year intermittent use.

WIRING:
Heaters shall be designed for a single circuit with elements, motor and control circuits wired in accordance with the latest national electric code or applicable local codes and ETL listed complying with UL Standard 2021. All three-phase heaters shall have balanced equal phases.

LIMIT CONTROLS:
All units shall have built in automatic reset thermal cutouts to shut down motor and elements if safe operating temperatures are exceeded. Fan purge to dissipate residual heat from elements on heater shut down is a factory-installed option.

CONTROLS:
Contactors and control circuit transformers, where required, are factory installed and wired. Single stage control on 3-20 KW units. 25 KW through 48 KW unit can be operated as 2 stage. Control options (Field installed).

- Disconnect switch – disconnects all ungrounded connections
- Thermostat – wall mounted or unit mounted

MOUNTING:
Unit Heaters can be mounted with the motor shaft from horizontal to downward at 45° off horizontal. Pre-drilled holes and installed threaded nuts provided to allow hanging by threaded rods - 1/4” for units up to 15 KW and 5/16” for 20 KW units and larger. Optional wall / ceiling mounting brackets are available for all units. The louver assembly can be rotated 90 degrees to direct airflow in any direction.

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SUBMITTAL DATA, UH SERIES

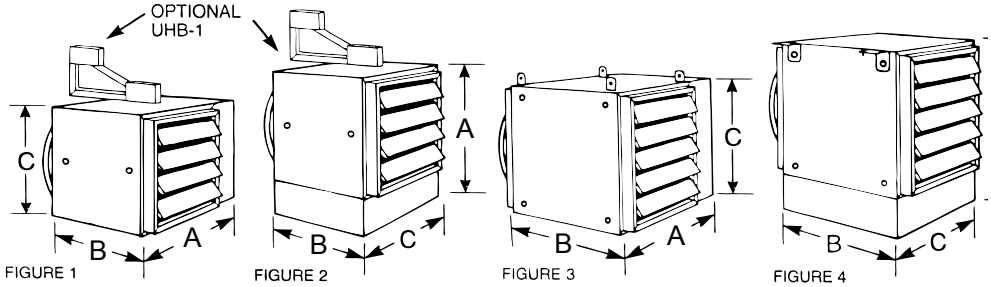
Print Form

AGENT	PROJECT	ENGINEER	DATE

TAG					
QTY.					
MODEL NUMBER					
VOLTS / PHASE					
KW					
THERMOSTAT					
CONTROL OPTIONS					
MOUNTING BRACKET					
NOTES					

FIELD INSTALLED ACCESSORIES		
UPC# 686334	MODEL	DESCRIPTION
646239	DCS303	30 Amp Disconnect Kit
646246	DCS403	40 Amp Disconnect Kit
646253	DCS803	80 Amp Disconnect Kit
646260	DCS1003	100 Amp Disconnect Kit
687997	TUH1	25 Amp SPST Thermostat Kit
699105	UHB-1	wall / ceiling bracket - 3.3 KW - 15 KW units
699112	UHB-3	wall / ceiling bracket - 20 KW - 30 KW units
699129	UHB-4	wall / ceiling bracket - 35 KW - 48 KW units

NOTE: Factory installed heat purge fan delay option (F) requires unit to have CA1 or CA2 factory installed



3.3 KW THROUGH 15 KW UNIT HEATERS

20 KW THROUGH 48 KW UNIT HEATERS

Dimensions	A	B	C
Figure 1: 3.3, 5, 7.5, 10 KW	20”	11”	13”
Figure 2: 12.5, 15 KW	22”	11”	15”
Figure 3: 20, 25, 30 KW	24”	17”	17”
Figure 4: 40, 48 KW	26”	23”	19”

Figures 3 & 4 shown with standard mounting tabs for units over 20 KW. Optional UHB-3 and UHB-4 wall brackets are available. 3.3 KW thru 15 KW units can be mounted using 1/4” threaded rod. 20 KW thru 48 KW units can be mounted using 5/16” threaded rod.

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