PART 1 General

1.1 SYSTEM DESCRIPTION

1.1.1 Provide Jaga Low H20 BUILT-IN WALL units where perimeter heating is shown as represented by Cyrus Kangarloo of Jaga Canada Climate Systems @ 604-355-6262 ckangarloo@jaga-canada.com. Alternates Shall not be accepted.

1. 1.1.2 BUILT-IN WALL hydronic heating device wall mounted shall be robust in design and provide suitable for public facility areas.

1.1.3 The water source heating equipment shall be certified for outputs based on EN442 standards

1.2 QUALITY ASSURANCE

1.2.1 Each Units shall be fully tested at the factory.

1.2.2 All aluminum components shall be certified to meet ASTM G53 UV-resistance

1.2.3 Surface temperature remains safe at all times based on DHSS DN 4 1992 regulation and subsequent revision.

1.2.4 All units shall be individually packaged and labeled for eased on site locating and installation

PART 2 Mechanical Parts

2.1 OPTIONAL FRONT PANEL CASING

1. 2.1.1 The FRONT PANEL shall be fabricated with 18 gauge electrolytic galvanized steel and will be coated epoxy polyester baked at 392°F. Available in grey metallic.
2. 2.1.2 The optional front face shall be constructed of multiple sections, laid one on top of the other
3. 2.1.3 The casing shall be fabricated with heat exchanger support bracket. Standard configuration will be center mounted.

2.1.4 All Valve connections shall be made inside of the casing unless separate enclosures are supplied.

1. 2.1.5 The unit shall come with locate and fasten support structure.
3. 2.1.6 The Casing shall be factory Parts Warranted for 10 Years

2.2 Heat Exchanger

2.2.1 The Heat exchanger shall be of copper and aluminum construction. Shall be composed of round, seamless circulation tubes pure red copper, and two brass collectors.

2.2.2 The Fins shall be connected to the heat exchanger by expansion method only.

2.2.3 The Heat exchanger shall be rated to 290 PSI

2.2.4 The Heat exchanger shall be easily removable from cabinet if required.

2.2.5 The Heat exchanger shall be coated with dirt repellent and dust proof lacquer in graphite grey with 70% gloss to match cabinet.

2.2.6 The Heat exchanger shall be made to accommodate Jaga’s Dynamic Boost Effect fans to increase heating output of the exchanger if so chosen.

2.2.7 The Heat exchanger shall be standard same end supply/ return. Opposite end heat exchangers as option.

2.2.8 The Heat exchanger shall have ASTM G53 certification.

2.2.9 Each individual heat exchanger shall have EN442 certification. Output Correction factors will not be considered equivalent to establish output capacities.

2.2.10 Each Heat exchanger shall be of ultra low thermal inertia in design.

2.2.11 Each Heat exchanger shall come with 1/8”air vents and ½”drain plug, ½” NPT hydronic connections. NPT to BSP adapters not accepted.

2.2.12 The Heat Exchanger fins shall be corrugated by design.

2.2.13 The Heat Exchanger shall be shipped with vacuum sealed protection.

1. 2.2.14 The Heat Exchanger shall be factory Parts Warranted for 30 Years

PART 2B – ELECTRICAL PARTS (OPTIONAL)

2.5.1 The fan motor shall be ECM, ball bearing and provide 100% variable operation

2.5.2 The fan system shall maintain sound noise pressure levels below 36 dBA at all times.

2.5.3 The fan system shall maintain a maximum electrical consumption of: type 6; 2.7 Watts, type 10-11; 2.8 Watts, Type 15-21; 2.1 Watts)

2.5.4 DBE units come with Intelligent controls and controller with override and boost capabilities. All in one system to enable slave control functionality.

2.5.5 DBE fans warranted for standard 2 years. OPTIONAL extended Warranty

2.5.6 DBE fans shall come with BMS communication and OR 0-10V analog controls.

2.5.7 DBE Controller shall have LED indications of status

2.5.8 The DBE system shall come with a 120-240 Volt AC – DC adaptor or connectivity to 12VDC line power

PART 3 - EXECUTION

* 1. INSTALLATION
     1. Maintain factory installed pipe caps until water connections are made.
     2. Install units in accordance with manufacturer’s instructions and install all accessories specified herein.
     3. Locate units according to the drawings and ensure that mounting position allows full access to the service panels, filters, etc.
     4. In order to totally block off the cold draughts from the window it shall be preferable that the fin tube element covers the full length of the window.

END OF SECTION