PART 1 General

1.1 SYSTEM DESCRIPTION

1.1.1 Provide Jaga BRIZA 12 units where heating and cooling is shown.

1. 1.1.2 BRIZA 12 hydronic heating and cooling device in the recessed (built-in), semi-recessed (with front panel), wall (flush mounted with powdercoated casing), floor mounted (with load bearing grille) or ceiling mounting orientations shall be quiet, robust and efficient in design and provide suitable heating for any public, commercial, or residential space.

1.1.3 The water source heating and cooling equipment shall be certified for outputs based on EN442 standards and EN16430 standards.

1.2 QUALITY ASSURANCE

1.2.1 Each Units shall be fully tested at the factory.

1. 1.2.2 Insulation and adhesives shall meet NFPA-90A requirements for flame spread and smoke generation

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

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

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

PART 2 Mechanical Parts

2.1 Cabinets for wall or ceiling mounting

1. 2.1.1 The Cabinet shall be fabricated with 16 gauge electrolytic galvanized steel and will be coated epoxy polyester baked at 392°F. Available in light grey metallic lacquer.
2. 2.1.2 The Top or front grille shall provide supply air and bottom or front bottom shall provide return.
3. 2.1.3 The Cabinet front face shall be constructed of a single uniform piece seamless in construction.
4. 2.1.4 The Cabinet shall be fabricated with heat exchanger support bracket. Standard configuration will be center mounted.

2.1.5 All Valve connections shall be made inside of the cabinet unless separate enclosures are supplied.

2.1.6 The Cabinet shall be fabricated such that there are no exposed corners or gaps. All corners shall be joined to form one solid piece – gaps are not permitted.

1. 2.1.7 The unit shall come with locate and fasten support structure.
3. 2.1.8 The Cabinet shall be factory Parts Warranted for 10 Years

2.1.9 OPTIONAL Any color cabinet

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 have ASTM G53 certification.

2.2.5 Heating and cooling by means of two separate coils, one for heating one for cooling for the 4 pipe application. Heating and cooling by means of one single coil for the 2 pipe application.

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

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

2.2.8 The Heat Exchanger fins shall be corrugated by design.

1. 2.2.9 The Heat Exchanger shall be factory Parts Warranted for 10 Years.

2.2.10 Connections on the heat exchanger shall be NPT threaded. Adapters from NPT to BSP threads are not allowed.

1. 2.3 The support frame:
2. 2.3.1 Pre-assembled heating and cooling unit for recessed fitting into the wall consisting of 19 gauge galvanized steel sheet.
3. 2.3.2 Possible to achieve a minimum recess depth of 4.7".
4. 2.3.3 The unit is equipped with an aluminum collecting tray and drain

1. 2.3.4 Insulation to avoid the formation of condensation and to reduce the noise

PART 2B – ELECTRICAL PARTS

2.5.1 The fan motor shall be Electronically Commutated, Brushless DC with ball bearings and provide 100% variable operation

2.5.2 The fan motors shall be 24VDC, low voltage. Optional 24VAC fan connection.

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

2.5.4 The fan speed can be completely modulated

2.5.5 ECM fans warranted for standard 2 years.

2.5.6 ECM fans include 0-10V analog controls with OPTIONAL ON/OFF fan control based on water temperature through the coil.

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.

END OF SECTION