

Type PWX



HORIZONTAL CHASSIS TYPE WATERSIDE FANCOILS FOR CONCEALED OR EXPOSED INSTALLATIONS

- Nominal sizes 60, 90, 120, 150, 180 and 205
- Volume flow rate range 50 - 636 l/s or 180 - 2289 m³/h
- Casing manufactured with 1.2 mm galvanised steel with powder-coat finish
- Condensate drip tray made of galvanised steel with powder-coat finish
- Heat exchanger for cooling (2-pipe) or cooling and heating (4-pipe) systems
- Easy filter change, no tools required
- Access hatch with integrated hinge
- Acoustically optimised EC/DC fans with low specific fan powers and variable supply air volume control (0-10v signal)

Optional equipment and accessories

- Integrated controls package
- Inlet attenuator
- Discharge attenuator
- Inlet plenum
- Electric heating
- Circular or rectangular discharge connection

Application

- Waterside fancoil Type PWX designed to provide cooling and heating for comfort and industrial applications
- Acoustically optimised EC/DC fans with low specific fan powers and adjustable supply air volume control (0 - 10v signal)
- Acoustically lined inlet and discharge plenums provide low sound power levels and improved thermal insulation
- 2-pipe or 4-pipe heat exchangers enable high comfort levels
- For horizontal installation in ceiling voids, floor voids or exposed ceiling applications

Special characteristics

- Removable access hatch with integrated hinge to facilitate inspection and maintenance
- Independent fan mounting enable individual removal or replacement
- Fire resistant 'Class O' acoustic insulation provides low operating noise levels and improved thermal insulation

Nominal sizes

- PWX-60: 600 x 900 x 270 mm (W x L x H)
- PWX-90: 900 x 900 x 270 mm (W x L x H)
- PWX-120: 1200 x 900 x 270 mm (W x L x H)
- PWX-150: 1500 x 900 x 270 mm (W x L x H)
- PWX-180: 1800 x 900 x 270 mm (W x L x H)
- PWX-205: 2050 x 900 x 270 mm (W x L x H)

Variants

- F7: Individual pod fans (single fan per motor)
- F10: Deck fans (2 or 3 fans per motor)

Parts and characteristics

- Heat exchanger is 2-pipe or 4-pipe system with Ø 15 mm or Ø 22 mm OD plain copper tails
- 200 mm wide condensate drip tray with Ø 15 mm OD drain connection
- EU2/G2 or EU3/G3 fabric inlet filter
- Ø 200 mm, Ø 250 mm or rectangular discharge connections

Attachments

- Controls enclosure

Accessories

- Inlet attenuator for noise critical applications
- Inlet plenum for ducted return air applications
- Discharge attenuator (rectangular spigot only)

Special characteristics

- Removable access hatch with integrated hinge to facilitate inspection and maintenance
- Independent fan mounting enables individual removal or replacement
- Fire resistant 'Class O' acoustic insulation provides low operating noise levels and improved thermal insulation

Casing

- PWX casing manufactured from 1.2 mm galvanised steel. Manufacturing process provides rigid, vibration free design with integrated supporting flanges.

Access hatch

- Access hatch manufactured from 1.2 mm galvanised steel
- Integrated hinge mechanism enables the panel to swing down without removal
- High density mesh-enforced gasket seal

Condensate drip tray

- Condensate drip tray manufactured from 1.2 mm galvanised steel with powder-coat finish, EAL 9005 (black)
- Unique, 2-way sloping design ensures effective removal of condensate along the full length of the tray
- Extended width design of 200 mm as standard provides condensate cover for pre-

installed valve assemblies

- Externally insulated with 3 mm, fire resistant 'Class O' closed cell insulation

Acoustic insulation

- Fire resistant 'Class O' acoustic insulation tested to BS476 Parts 6 & 7
- Low thermal conductivity of 0.036 W/m.K provides improved thermal resistance

Heat exchanger

- Heat exchangers manufactured from seamless Ø 3/8" copper tube , expanded on to profiled aluminium fins
- All heat exchangers tested to 30 bar
- Max. operating pressure: 10 bar
- Max. test pressure for factory fitted control valves: 7 bar
- Key operated vents and drains incorporated within header block
- 4-pipe coil assembly provides optimised cooling & heating control
- 2-pipe coil assembly provides optimised cooling control. Can be used in conjunction with electric heating

Controls enclosure

- Controls enclosure manufactured from 1.0 mm galvanised steel
- Constructed in accordance with BS7671, IET wiring regulations
- Top cover to IP4X, all other surfaces to IP2X
- Enclosure mechanically fixed to PWX casing using pre-formed backplate
- Removable lid provides access to installed controls
- Supply voltage: 230 V AC \pm 10%, 50/60 Hz

Inlet plenum

- Inlet plenum manufactured from 1.2 mm galvanised steel
- Fire resistant 'Class O' acoustic insulation applied to internal surfaces
- Ø 198 mm or Ø 248 mm spigots
- Installation bracket for quick coupling to PWX fancoil on site

Inlet attenuator

- Inlet attenuator manufactured from 1.2 mm galvanised steel
- Fire rated 'Class A1' mineral wool acoustic lining
- Installation bracket for quick coupling to PWX fancoil on site

Discharge attenuator

- Discharge attenuator manufactured from 1.2 mm galvanised steel
- Fire rated 'Class A1' mineral wool acoustic lining
- Installation bracket for quick coupling to PWX fancoil on site
- For use with rectangular spigot variant only

Inlet filter

- S: Fabric filter, EU2/G2
- S3: Fabric filter, EU3/G3
- F: Washable foam filter, Class O, EU2/G2
- M: Washable mesh screen, stainless steel

TECHNICAL INFORMATION

Function, Technical data, Quick sizing, Specification text, Order code

Variants and accessories, Dimensions, Spigot handing and weight

Installation examples

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