

ProPak Thermal 38-Series S Instantaneous Packaged Plate Heat Exchanger

Product Description

WRAS and KIWA UK Reg 4 Approved Packaged Plate Heat Exchanger suitable for Domestic Hot Water Generation.

The ProPak Thermal range of packaged plate heat exchangers are suitable for the generation of domestic hot water in commercial and industrial applications. Each WRAS and KIWA UK Reg 4 approved unit is constructed with Stainless Steel AISI 316 plate heat exchangers, has a MODBUS interface and fully modulating ERP A rated primary pumps.

ProPak ® Thermal Range: Features

- Full WRAS Approval (WRAS Approval Number 2312347)
- Heat outputs: 75 – 800kw
- Stainless Steel AISI 316 Plates
- EPDM Gaskets
- ERP A rated fully modulating Primary Pumps
- PID Controller with MODBUS Interface
- Fast acting Siemens 3-port valve
- High Density, Semi-Rigid Insulation

ProPak ® Thermal Range: Options

- Skid Mounting with pre-connected Buffer Vessel
- High Outputs: 1mw + options

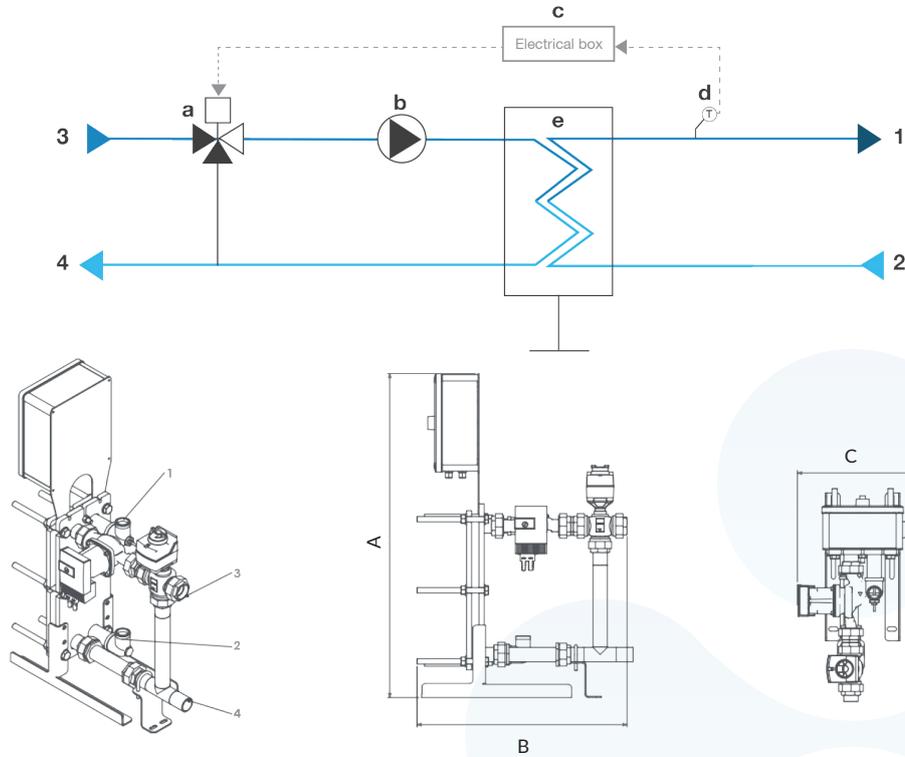


Technical Specification

Plate Construction Material	AISI 316L Stainless Steel
Gasket Construction Material	EPDM - PRX Gasket
Press Plate and Mounting Frame Construction Material	Epoxy Coated Quality Mild Steel
Ancillaries Mounting Pipework	AISI 316L Stainless Steel
Insulating Jacket Material	30mm High Density Semi - Rigid Polyolefin Foam (PO)
Full PID Control Unit	MODBUS RTU/RS 485 BMS Interface
Maximum Full Load Current	5 Amp
Primary Circuit Motorised 3 Port Control Valve	Siemens VXG 48.32 / SAS 61.03 Actuator
Primary Circulation Pump	Wilo Yonos Para MAXO 30-180
Total Height	1300 mm
Total Length	750 mm
Total Width	400 mm
Weight	135 kg
Maximum Operating Pressure - Primary	10 bar
Maximum Operating Pressure - Secondary	10 bar
WRAS Approval Number	2312347

TECHNICAL PRODUCT SUBMITTAL

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Dimensions (mm)

A	1300
B	750
C	400

Connections

1	Secondary Outlet Connection - DN32
2	Secondary Inlet Connection - DN32
3	Primary Inlet Connection - DN32
4	Primary Outlet Connection - DN32

Schematic Drawing Key

a	Motorised 3 Port Control Valve
b	Primary Circulation Pump
c	PID Control Unit - MODBUS / BMS Interface
d	Control Temperature Sensor - PT100
e	Gasketed Plate Heat Exchanger



ProPak Thermal Packaged Plate Heat Exchanger

Project Name:	
Date Created:	
Recommended Model:	

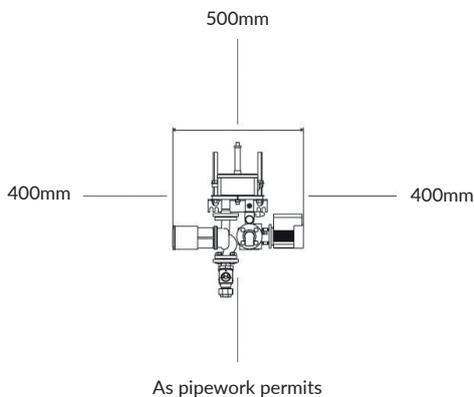
Primary Flow & Return Temp @

°C/ °C

Heat Load Required / Max Duty	kW
DHW Flow Rate/Hour ΔT 50°C	litres
Secondary Circuit Flow Rate	l/s
Secondary Pressure Drop (Peak)	kPa
Primary Circuit Flow Rate	l/s
Primary Pressure Drop (Peak)	kPa
Primary Circuit Fluid	Water

Recommended Clearances:

Propak Clearances



Water Quality

In hard water areas, suitable water conditioning or softening equipment must be installed to condition the sanitary water prior to heating.

The conductivity of the water must not be less than 125 μ S/cm and the hardness (alkaline earth ions) of the water being less than 1.00 mmol/litre. In all cases water quality should be within the parameters of 0.0 and +0.4 on the Langelier's Saturation Index (LSI).

Warranty

The unit is covered by a 2 year warranty. If the water quality deviates from the parameters outlined above the product cannot be covered by warranty.

