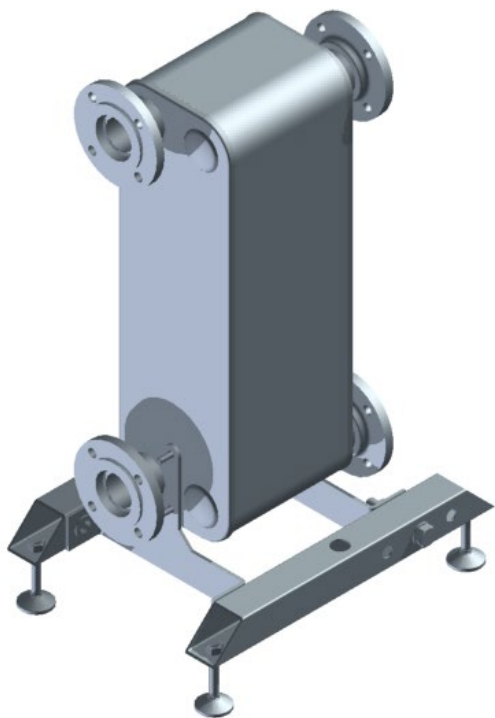




# BRAZED PLATE HEAT EXCHANGER

## 450kW\*



Covering outputs of 60, 150, 300, 450, 600, 750 and 900kW. Brazed Plate Heat Exchangers ensure optimum heat transfer efficiency and low resistance within a compact footprint. To be used with Ideal Commercial Frame and Header kits.

### FEATURES & BENEFITS

- Compact design
- No gaskets
- Low maintenance and self-cleaning
- All units are pressure tested
- To be used with Ideal Commercial Frame and Header kits
- Ensures optimal heat transfer efficiency and pressure resistance
- Separates system water from the boiler
- Ensures the highest performance for longest possible service life

### DIMENSIONS

The dimensions below represent the Plates only.



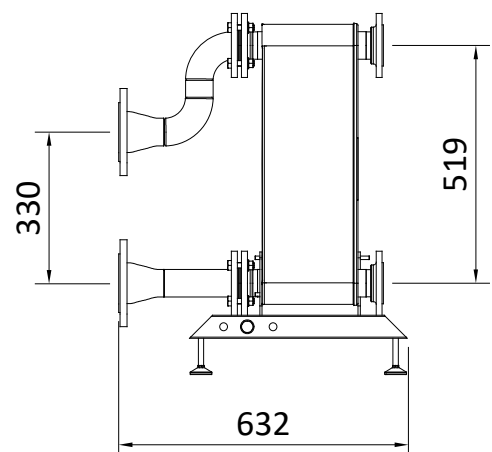
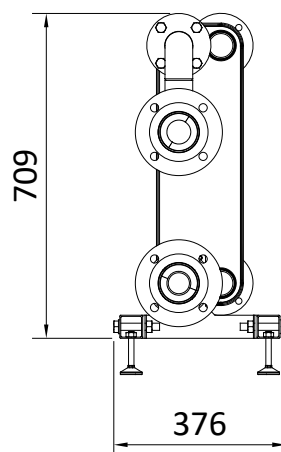
LENGTH  
293mm



WIDTH  
191mm



HEIGHT  
616mm



## BRAZED PLATE HEAT EXCHANGER 450kW

### SPECIFICATIONS

#### TECHNICAL SPECIFICATION

		HOT SIDE	COLD SIDE
Mass flow rate	kg/s	5.385	5.390
Inlet temperature	°C	80.0	50.0
Outlet temperature	°C	60.0	70.0
Pressure drop	kPa	13.7	14.3
Heat exchanged	kW	450	
Heat transfer area	m <sup>2</sup>	8.29	
Flow configuration		Countercurrent	
Number of plates / thickness		76 / 0.3mm	
Number of passes		1	1
Pressure vessel code		PED	
Design pressure at 90.00 Celsius	Bar	30.0	30.0
Design pressure at 225.0 Celsius	Bar	25.0	25.0
Design temperature	°C	-196.0 / 225.0	
Overall length x width x height	mm	293 x 191 x 616	
Net weight, empty / operating	kg	33.0 / 48.4	

#### FRAME & HEADER CONNECTIONS

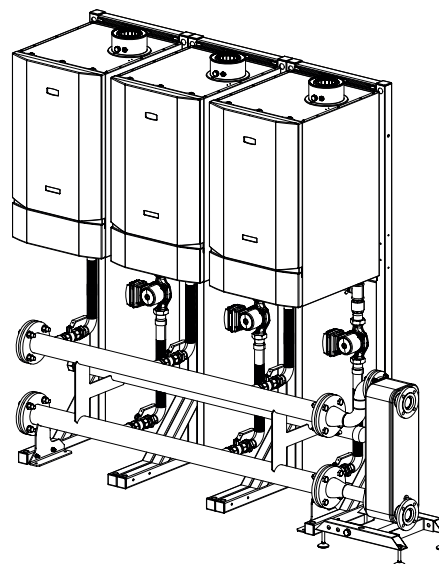
Low Height & Standard Height	DN80
Low Height & Standard Height	DN100

#### STANDARD MATERIALS

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing	Copper

\*This is the nominal capacity of the plate heat exchanger applying the operating conditions shown in this document. Please contact Ideal Commercial to confirm the expected performance if the operating conditions differ from those shown.

#### SYSTEM CONNECTIONS DN50



211384

# GET A QUOTE

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