

Domusa

Dual Clima HT

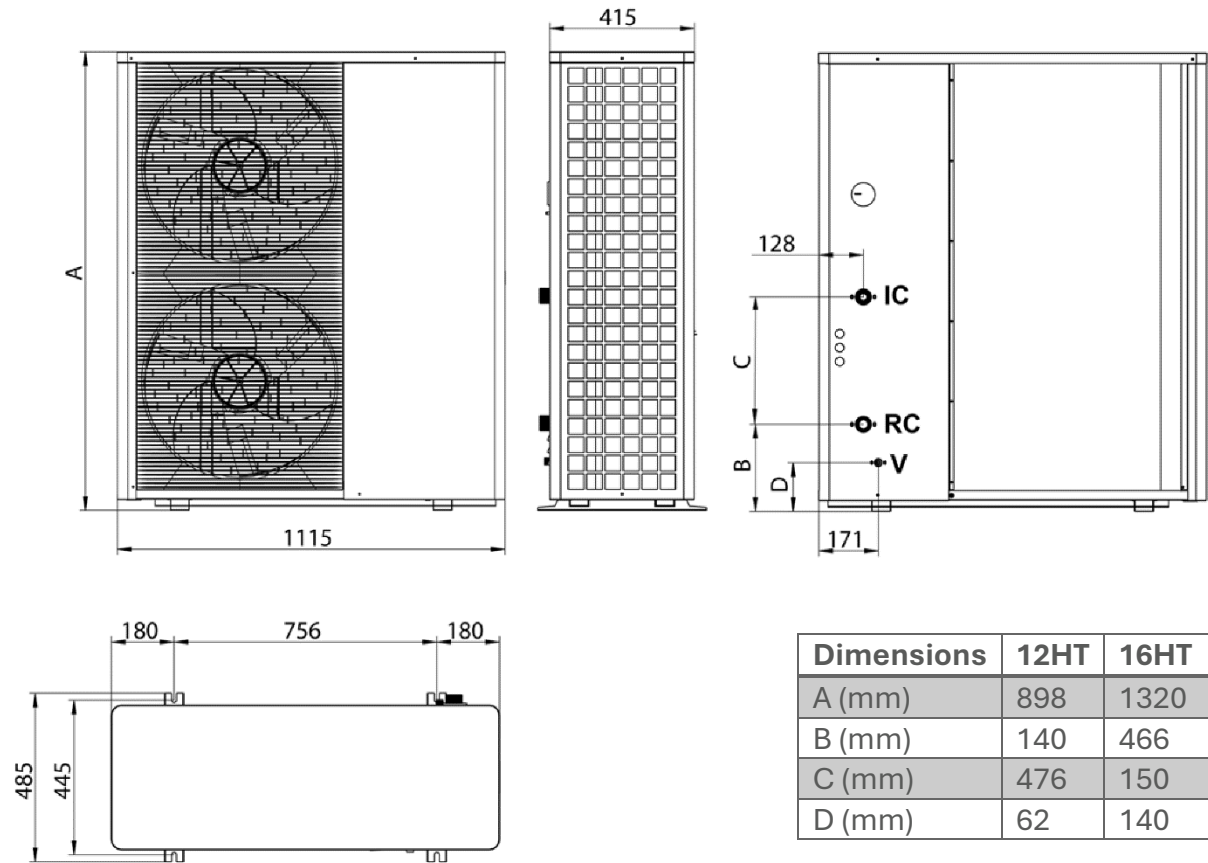
Installation Advice



Installation Advice

The purpose of this document is to highlight key information that is crucial to correct installation. Details, important to Pre-Pipe stage through to Final Fit are included here.

Heat Pump Dimensions 12HT & 16HT



Hydronic Port Size	12HT	16HT
Flow	1" Male	1¼" Male
Return	1" Male	1¼" Male
Drain	½" Male	½" Male

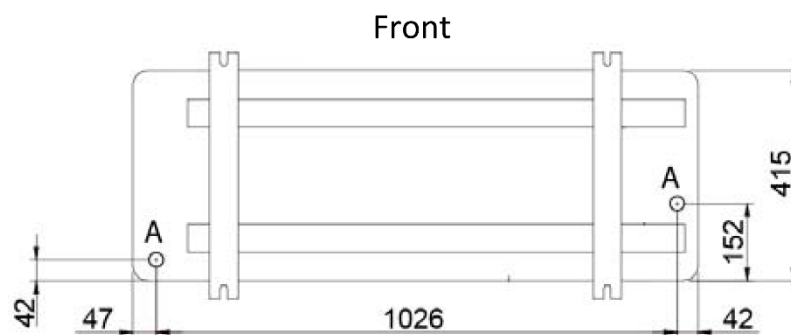
Condensate Management

This is an underside view of the heat pumps condensate pan with dimensions for considerations around condensate management.

Condensate can be piped to a drain such as a soak pit or free drain onto the concrete if a strip drain is being used around the Heat Pump.

It is advised to make provisions to manage condensate as this can become a slip hazard when the condensate potentially freezes in winter.

Connection to the heat pump can be made using the supplied drain pan fitting.



Maximum Pipe Lengths

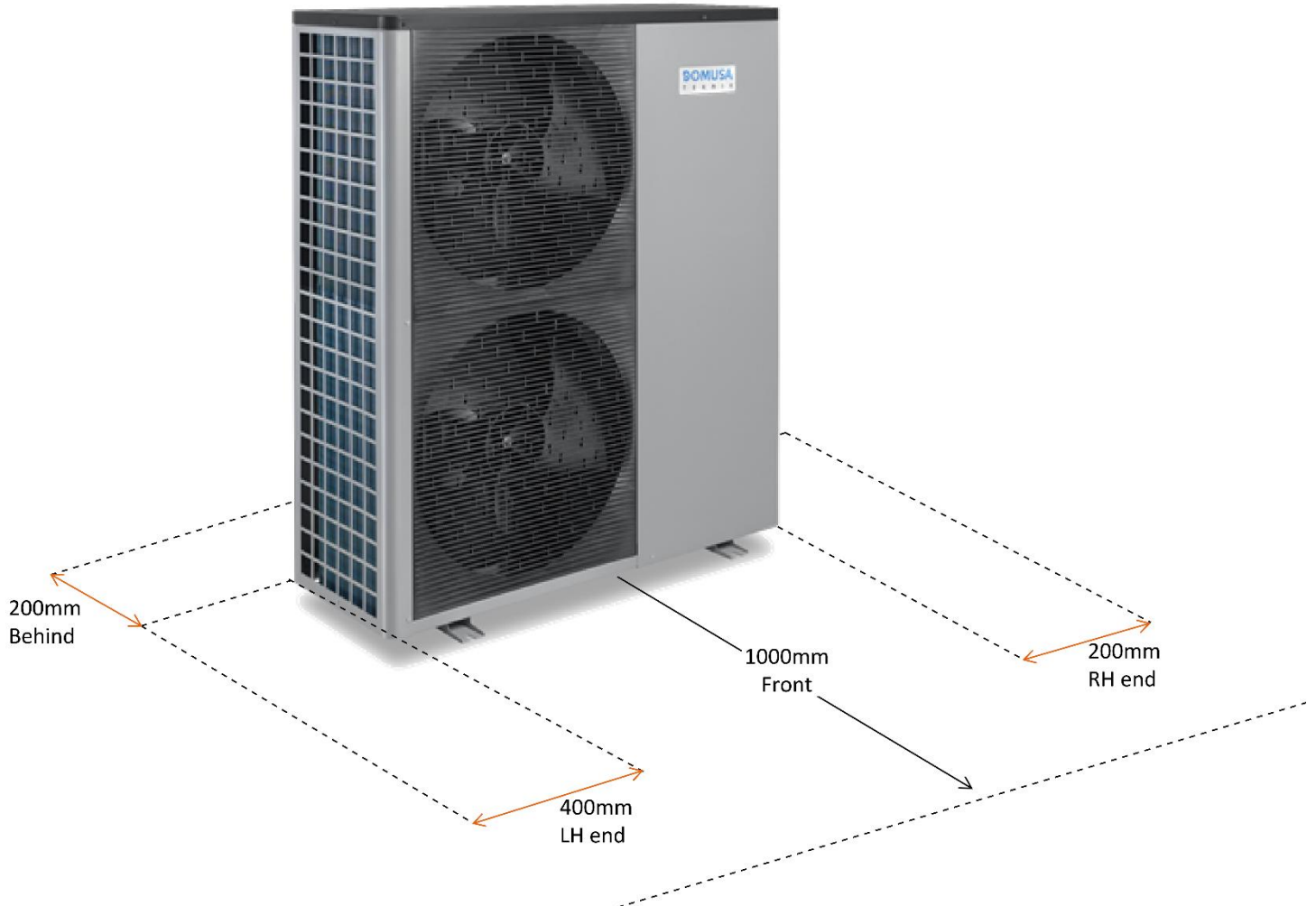
The table below details the maximum primary pipe length for both 12HT and 16HT when using 32mm Multitubo pipe directly to a buffer tank. This can be increased with the use of an additional circulation pump. Review system design or contact engineering for more information.

Diameter \varnothing (mm)	Max Pipe Length – Flow + Return (m)	
	12HT	16HT
32	44	28

If no buffer tank is used and the heat pump is directly feeding underfloor or radiators these values may be reduced dependant on the system design. Again, this can be increased with the use of an additional circulation pump. Review system design or contact engineering for more information.

Heat Pump Clearances

Basic minimum clearances CHNZ require to be observed. Certain installations with enclosed areas may require larger clearances. See Installation manual for more detail.

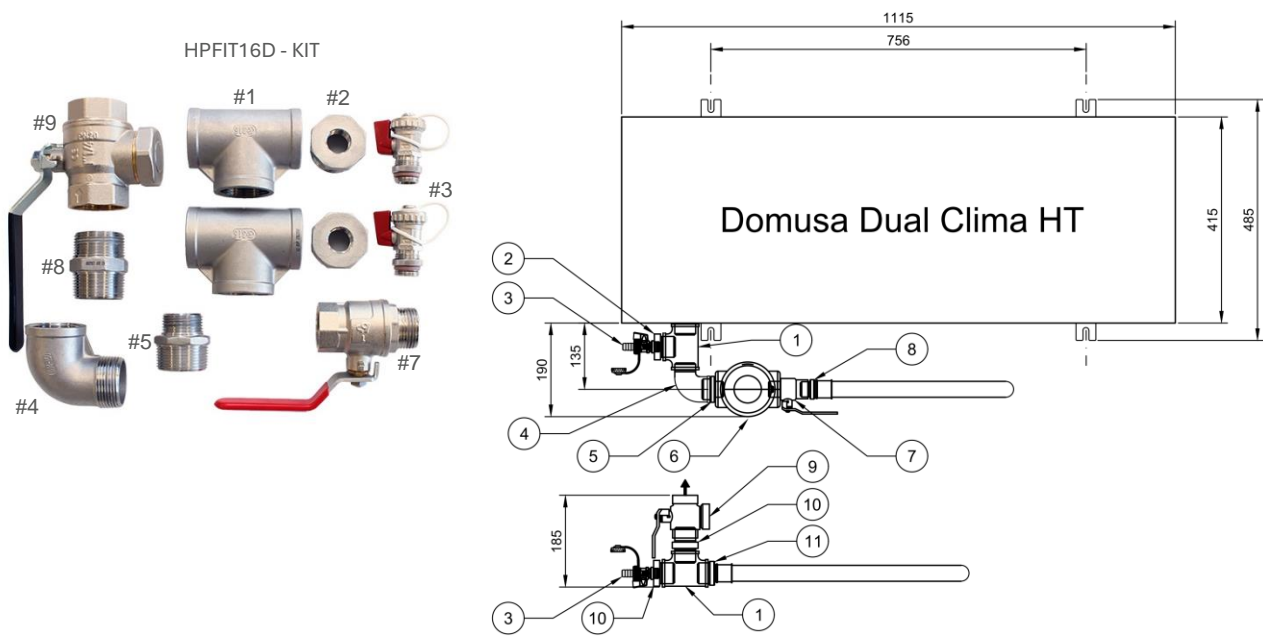


It's required that the heat pump be mounted on anti-vibration mounting feet, a minimum of **80mm** off the ground. This will allow for correct air flow around the unit and prevent dirt and leaf debris building up at the base of the finned heat exchanger. [HPKANTVIBR](#) allows each corner of the heat pump to be adjusted for installations on uneven ground and includes fasteners.



Heat Pump Fitting KIT Dimensions

Fittings List Per branch							
12kW				16kW			
Fitting Index	Flow Branch	Fitting Index	Return Branch	Fitting Index	Flow Branch	Fitting Index	Return Branch
1	1" Tee	9	1" Filter Ball Valve	1	1 1/4" Tee	9	1 1/4" Filter Ball Valve
2	1" To 1/2" Bush	10	1" Nipple	2	1 1/4" To 1/2" Bush	10	1 1/4" Nipple
3	1/2" Drain Fill Valve	1	1" Tee	3	1/2" Drain Fill Valve	1	1 1/4" Tee
4	1" MT- FT Elbow	2	1" To 1/2" Bush	4	1 1/4" MT- FT Elbow	2	1 1/4" To 1/2" Bush
5	1" Nipple	3	1/2" Drain Fill Valve	5	1 1/4" To 1" Nipple Reducing	3	1/2" Drain Fill Valve
6	1" FAR Deaerator (2251 1)	11	MT32 1" MT	6	1" FAR Deaerator (2251 1)	11	MT32 1 1/4" MT
7	1" Ball Valve (MT-FT)		MT32 Pipe As Feeds	7	1" Ball Valve (MT-FT)		MT32 Pipe As Feeds
8	MT32 1" MT			8	MT32 1" MT		
	MT32 Pipe As Feeds				MT32 Pipe As Feeds		



Fitting KIT Assembly

The image below details basic assembly of the HPFIT16D Fitting KIT, including integration of the FARDEAR1 FAR Deaerator. To achieve the dimensions stated on the previous page it is recommended that all fittings are threaded to the bottom threads where possible. CHNZ recommend using Loctite 55 thread cord, Hemp and Hawk White or other thread sealing products for these joints.

Insulation of the fitting kit is required.



Required primary pipe fitting size for **flow** assembly: 1"

Recommended fitting: [MT321MT](#)

Required primary pipe fitting size for **return** assembly: 1¼"

Recommended fitting: [MT32114MT](#)

Heat Pump Electrical Connections and Supply

Supply

Model	Supply	Max Current Draw (A)	Minimum cable size (mm ²)	Recommended fuse size (A)
16HT	230VAC 50Hz	27A	6mm ²	32A
12HT	230VAC 50Hz	17A	4mm ²	25A

Key Heat Pump Specifications

For further detail, see Technical Characteristics in Installation and Operating Manual

Dual Clima 12HT

Capacity: 12kW

COP: 4.48 @ 35/30/7°C

Size: 898H x 1115W x 415D

Weight: 125kg

Power Supply: 230VAC Single Phase

Max Current Draw: 17A

Hydronic connection Port Size: 1”

Sound Pressure: 44 dB(A) (1m)

Minimum system water volume: 48 litres.

Minimum system flow rate: 16L/min.

Origin: Spain

Dual Clima 16HT

Capacity: 16kW

COP: 4.69 @ 35/30/7°C

Size: 1320H x 1115W x 415D

Weight: 175kg

Power Supply: 230VAC Single Phase

Max Current Draw: 27A

Hydronic connection Port Size: 1-1/4”

Sound Pressure: 48 dB(A) (1m)

Minimum system water volume: 60 litres.

Minimum system flow rate: 20L/min.

Origin: Spain

Attention before you commission

The Domusa Commissioning Guide has been created to assist you in completing your installation. Follow the instructions by scanning the QR code below or by visiting our website.



Domusa Commissioning Guide

For further assistance please contact: aftersales@centralheating.co.nz