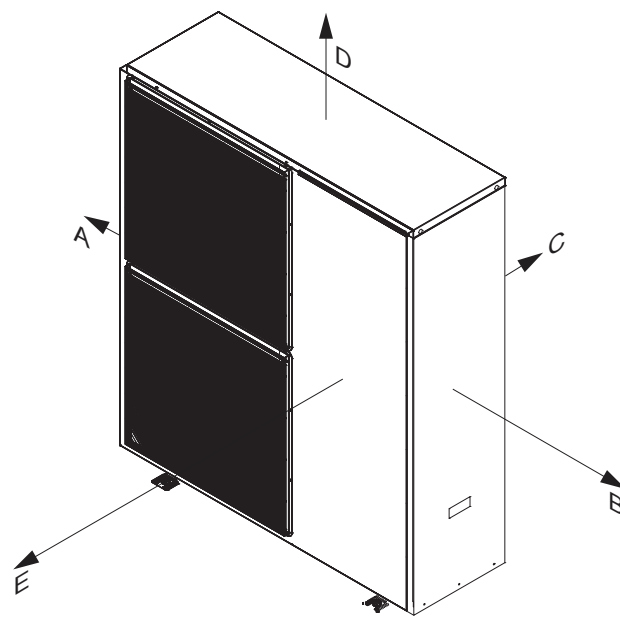




AERONA 290 OPERATIONAL & SAFETY CLEARANCES

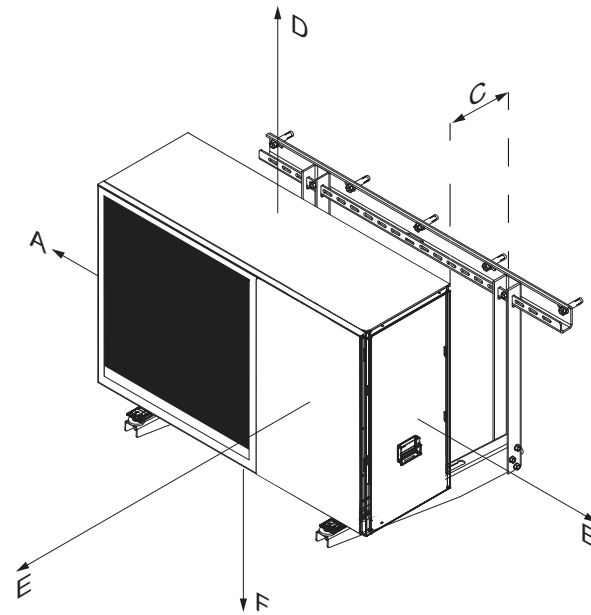
OPERATIONAL CLEARANCES

GROUND INSTALLATION



Item	Minimum clearance required (mm)
A	100
B	500
C	250
D	500
E	600* (4, 6.5 & 9kW models) 1000 (12 & 15.5kW models)

WALL MOUNTED INSTALLATION



Item	Minimum clearance required (mm)
A	100
B	500
C	200
D	500
E	600* (4, 6.5 & 9kW models) 1000 (12 & 15.5kW models)
F	300

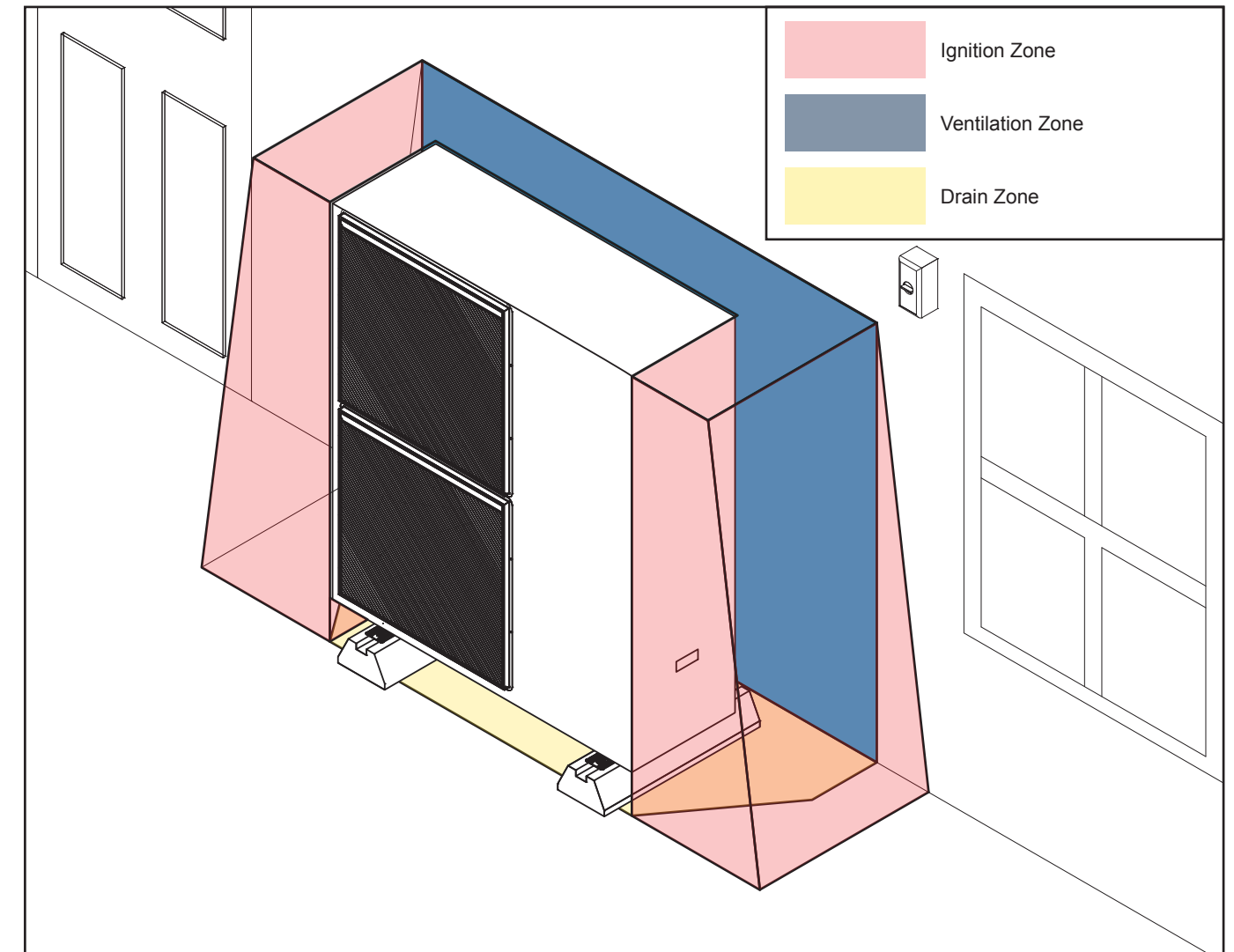
* A clearance of at least 1000mm should be considered where air recirculation is possible

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SAFETY CLEARANCES



This diagram demonstrates the complete 'protective' zone around the heat pump that in the case of an unlikely refrigerant leak could create a flammable atmosphere.

This can be separated into 3 distinct areas:

Ignition Zone (A): Any potential sources of ignition or spark that could cause 'ignition' should a flammable atmosphere form.

Ventilation Zone (B): Any sources of potential entry of refrigerant into habitable spaces.

Drain Zone (C): Any sources of potential entry of refrigerant into drains or trapped gullies that can lead to the settling of refrigerant before it has been sufficiently diluted by the atmosphere.



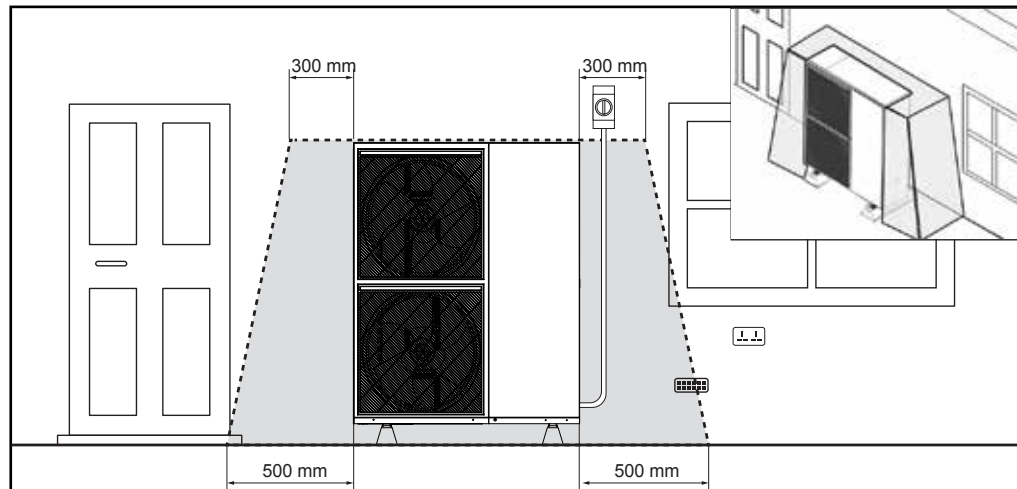
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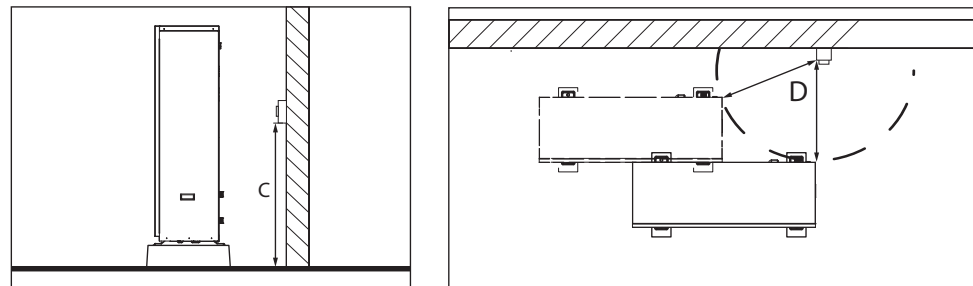
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AERONA 290 OPERATIONAL & SAFETY CLEARANCES

IGNITION ZONE

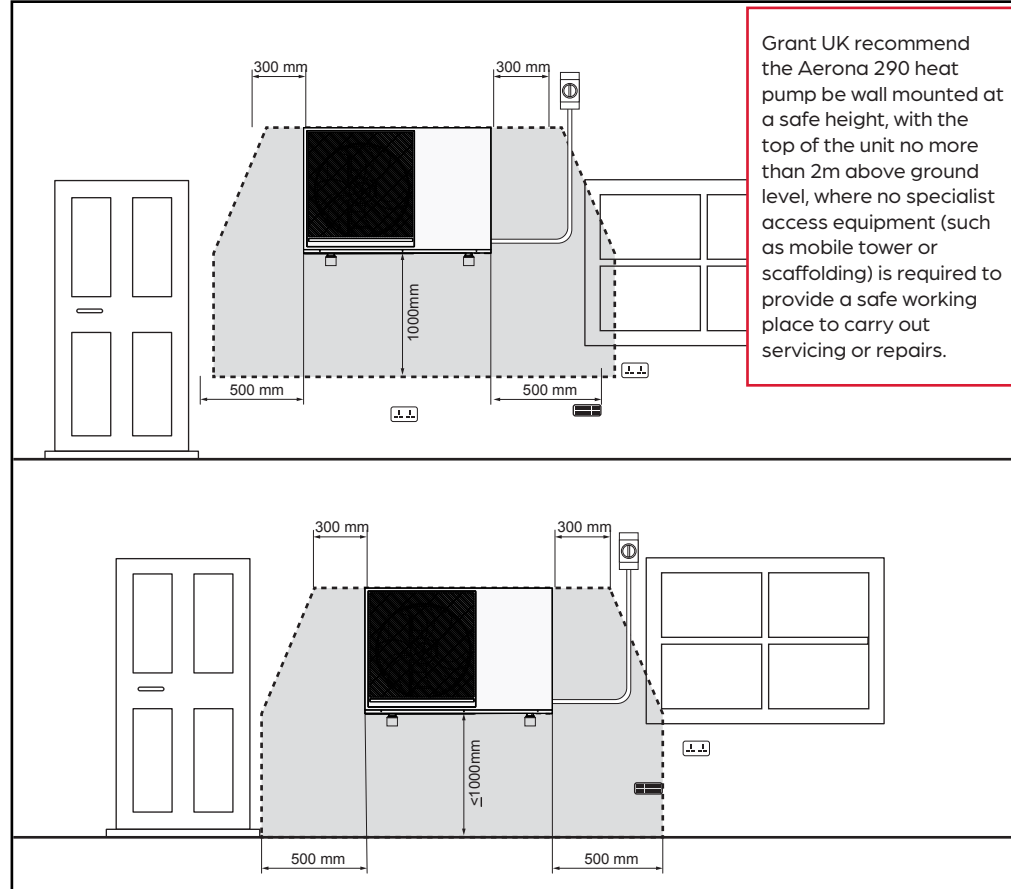


IGNITION ZONE STRAIGHT LINE ADJUSTMENTS



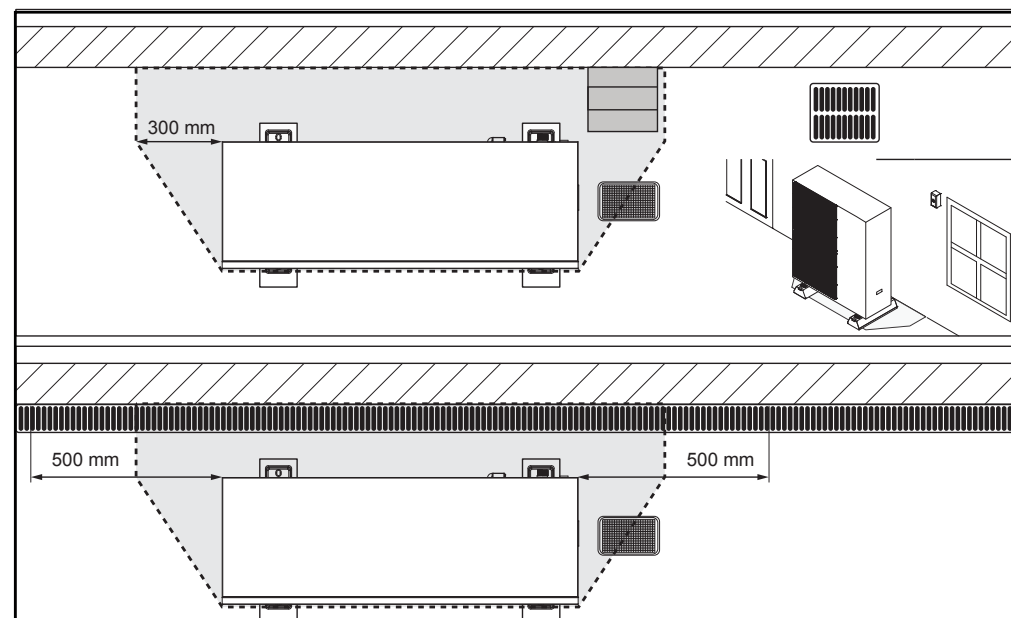
Height to source (C)	Minimum straight line distance (D)	Height to source (C)	Minimum straight line distance (D)	Height to source (C)	Minimum straight line distance (D)
1450	360	950	425	450	495
1400	365	900	430	400	500
1350	370	850	440	350	510
1300	375	800	445	300	515
1250	380	750	450	250	520
1200	390	700	460	200	530
1150	400	650	465	150	540
1100	405	600	470	100	545
1050	410	550	480	50	555
1000	415	500	485	0	560

IGNITION ZONE - WALL MOUNTED



Grant UK recommend the AERONA 290 heat pump be wall mounted at a safe height, with the top of the unit no more than 2m above ground level, where no specialist access equipment (such as mobile tower or scaffolding) is required to provide a safe working place to carry out servicing or repairs.

DRAIN ZONE

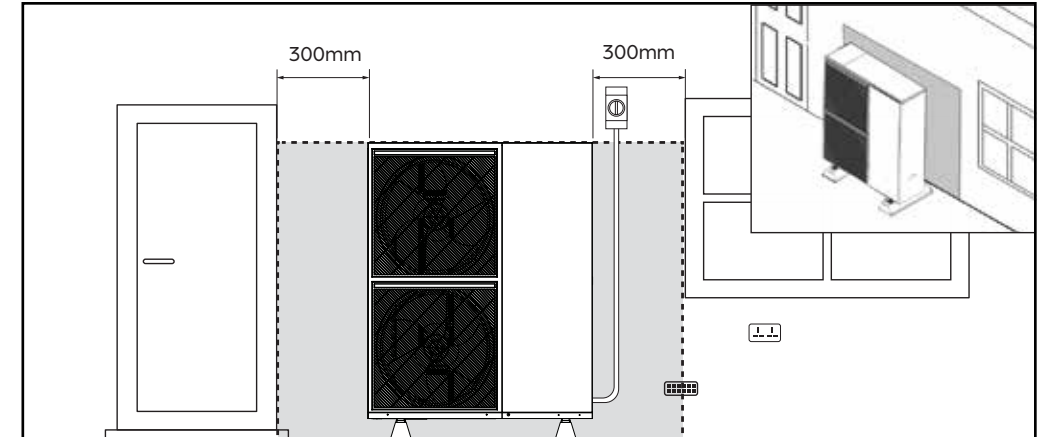


Where a rainwater gully/channel is present within the drain zone, at least two of the following conditions must be met:

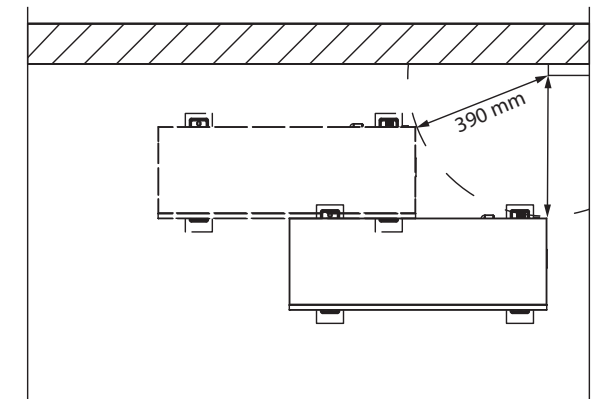
1. It extends a minimum of 500 mm outwards from either side of the heat pump.
2. It is at least 3000 mm in length
3. It is untrapped and free flowing to a discharge point or storm drain.

Buried gas meters and sealed (with permanent and airtight seal) covers are permitted within the drain zone.

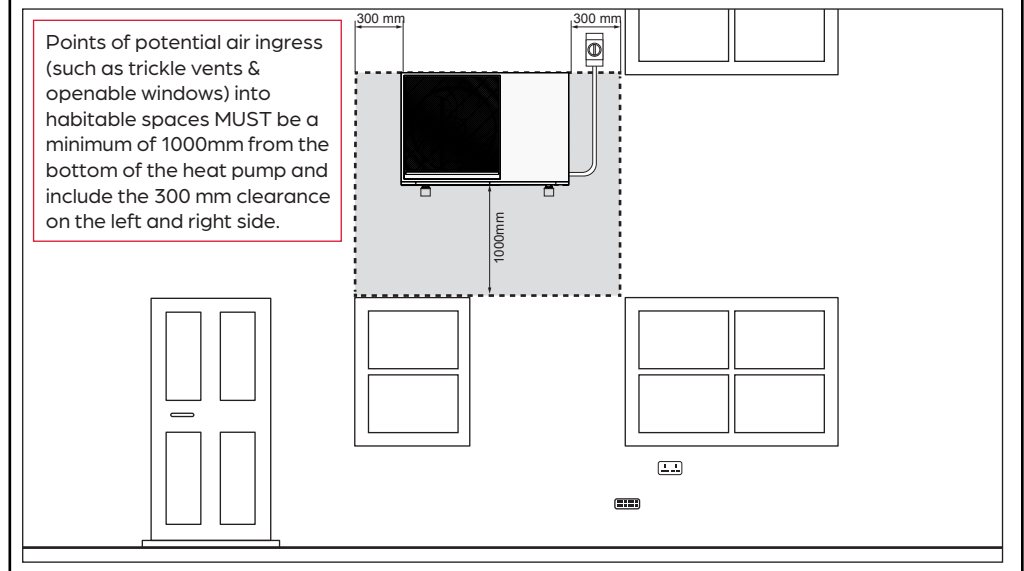
VENTILATION ZONE



VENTILATION ZONE STRAIGHT LINE ADJUSTMENTS



VENTILATION ZONE - WALL MOUNTED



Points of potential air ingress (such as trickle vents & openable windows) into habitable spaces MUST be a minimum of 1000mm from the bottom of the heat pump and include the 300 mm clearance on the left and right side.