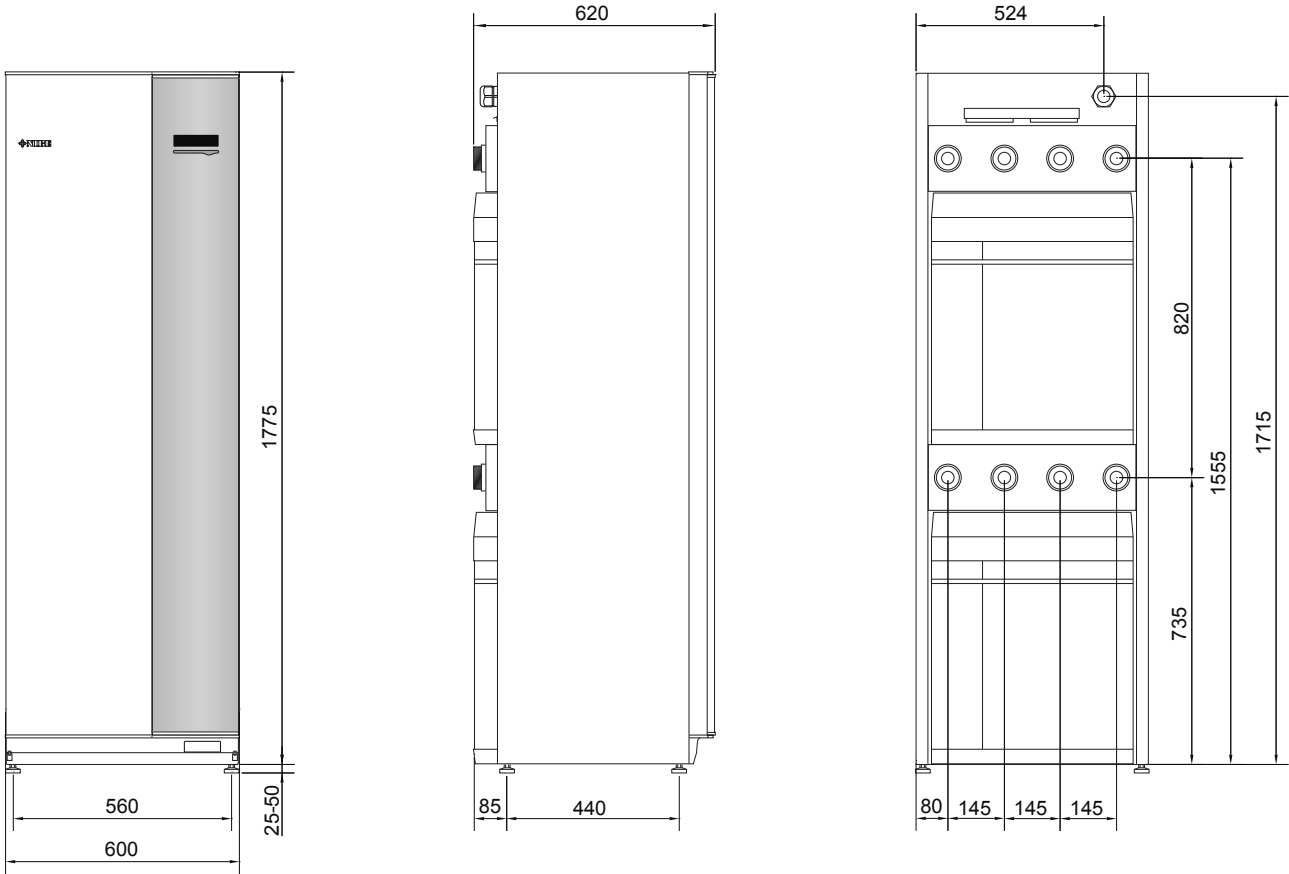


# 8 Technical data

## Dimensions and setting-out coordinates



## Technical specifications



3x400 V

Model		F1355-28
<b>Output data according to EN 14511 nominal (50 Hz)</b>		
<b>0/35</b>		
Rated output ( $P_H$ )	kW	20.77
Supplied power ( $P_E$ )	kW	4.56
$COP_{EN14511}$	-	4.55
<b>0/45</b>		
Rated output ( $P_H$ )	kW	19.87
Supplied power ( $P_E$ )	kW	5.54
$COP_{EN14511}$	-	3.59
<b>10/35</b>		
Rated output ( $P_H$ )	kW	26.68
Supplied power ( $P_E$ )	kW	4.76
$COP_{EN14511}$	-	5.60
<b>10/45</b>		
Rated output ( $P_H$ )	kW	25.71
Supplied power ( $P_E$ )	kW	5.84
$COP_{EN14511}$	-	4.40
<b>Output data according to EN 14825</b>		
Nominal heating output (designh)	kW	28
$SCOP_{EN14825}$ cold climate, 35 °C / 55 °C	-	5.4 / 4.2
$SCOP_{EN14825}$ average climate, 35 °C / 55 °C	-	5.0 / 4.0
<b>Electrical data</b>		
Rated voltage		400V 3N ~ 50Hz
Max operating current, heat pump	$A_{rms}$	22.1
Max. operating current compressor EP14 / EP15	$A_{rms}$	9.5 / 8.5
Recommended fuse rating	A	25
Starting current	$A_{rms}$	27.7
Max permitted impedance at connection point <sup>2)</sup>	ohm	-
Total output, Brine pumps	W	6 – 360
Total output, HM pumps	W	5 – 174
Enclosure class		IP 21
<b>Refrigerant circuit</b>		
Type of refrigerant		R407C
Fill amount EP14 / EP15	kg	2.2 / 2.0
GWP refrigerant		1,774
CO <sub>2</sub> equivalent EP14 / EP15	ton	3.90 / 3.55
Cut-out value pressostat HP	MPa	3.2 (32 bar)
Difference pressostat HP	MPa	-0.7 (-7 bar)
Cut-out value, pressure switch LP EP14 / EP15	MPa	0.15 (1.5 bar) / 0.08 (0.8 bar)
Difference, pressure switch LP EP14 / EP15	MPa	0.15 (1.5 bar) / 0.07 (0.7 bar)
Cut-out value, pressure transmitter LP	MPa	0.13 (1.3 bar)
Difference, pressure transmitter LP	MPa	0.01 (0.1 bar)

Model		F1355-28
<b>Brine circuit</b>		
Max system pressure brine	MPa	0.6 (6 bar)
Nominal flow	l/s	1.19
Max external avail. press at nom flow	kPa	95
Min/Max incoming Brine temp	°C	see diagram
Min. outgoing brine temp.	°C	-12
<b>Heating medium circuit</b>		
Max system pressure heating medium	MPa	0.6 (6 bar)
Nominal flow	l/s	0.48
Max external avail. press at nom flow	kPa	75
Min/max HM-temp	°C	see diagram
<b>Sound power level (L<sub>WA</sub>) according to EN 12102 at 0/35</b>	dB(A)	47
<b>Sound pressure level (L<sub>PA</sub>) calculated values according to EN ISO 11203 at 0/35 and 1 m range</b>	dB(A)	32
<b>Pipe connections</b>		
Brine diam. CU pipe		G50 (2" external) / G40 (1 1/2" internal)
Heating medium diam. CU pipes		G50 (2" external) / G40 (1 1/2" internal)

<sup>1)</sup>Max. permitted impedance in the mains connected point in accordance with EN 61000-3-11. Start currents can cause short voltage dips that may affect other equipment in unfavourable conditions. If the impedance in the mains connection point is higher than that stated, it is possible that interference will occur. If the impedance in the mains connection point is higher than that stated, check with the power supplier before purchasing the equipment.

## Miscellaneous

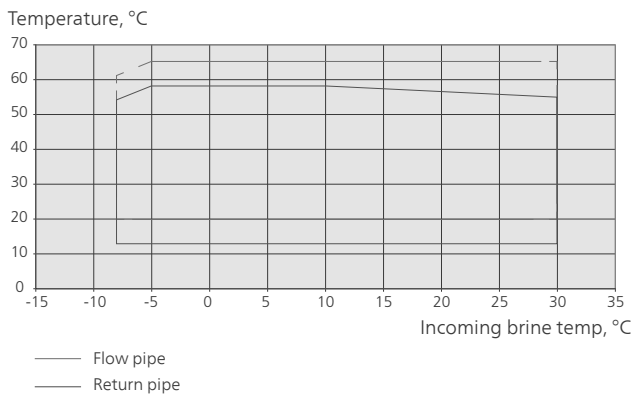
Miscellaneous		F1355-28
<b>Compressor oil</b>		
Oil type		POE
Volume EP14 / EP15	l	1.45 / 1.9
<b>Dimensions and weight</b>		
Width	mm	600
Depth	mm	620
Height	mm	1,800
Required ceiling height <sup>1)</sup>	mm	1,950
Weight complete heat pump	kg	375
Weight only cooling module EP14 / EP15	kg	125 / 130
Part no., 3x400V		065 436

<sup>1)</sup>With feet removed, the height is approx. 1930 mm.

## Working range heat pump, compressor operation

The compressor provides a supply temperature up to 65 °C.

Cooling module EP14



Cooling module EP15

