TECHNICAL DATA Brine Operation

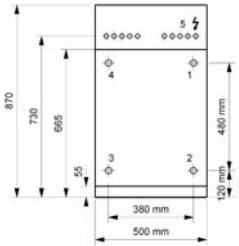
WEIDER – Heat Pumps

HEAT PUMP TYPE	HT60	HT90	HT140	HT330	HT350

BRINE OPERATION with a feed temperature of 0 °C and heating flow temperature of 35, 55 and 65 °C

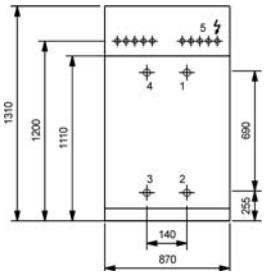
°C		35	55	65	35	55	65	35	55	65	35	55	65	35	55	65
Heating output	kW	5,3	4,8	4,7	7,8	7,2	6,9	10,9	10,3	9,9	23	21	20	28	25	24
Electric power consumption	kW	1,1	1,6	1,9	1,7	2,3	2,7	2,3	3,3	3,9	5	6,8	8,1	6,1	8,1	9,2
Coefficient of performance (ΔT 10 K)		4,7	3,1	2,5	4,7	3,1	2,5	4,7	3,1	2,5	4,6	3,1	2,5	4,6	3,1	2,6
Coefficient of performance (ΔT 5 K)		4,2	2,8	2,2	4,2	2,8	2,2	4,2	2,8	2,2	4,1	2,7	2,2	4,1	2,7	2,3
Volume flow rate – brine m³/h		1,2			1,7			2,5			5			6,3		
Pressure drop – evaporator	mbar	100			110			100			150			200		
Temperature range – brine C		-6 to +20														
Volume flow rate - heating water	m³/h	0,5 to 0,9			0,7 to 1,3			0,9 to 1,9			2,0 to 3,9			2,4 to 4,8		
Pressure drop - heating water	mbar	10 to 40			20 to 50			20 to 50			10 to 60			40 to 90		
Temperature difference Δt	°C	5 to 10														
Feed temperature	°C	25 to 68														
Mains connection	V	2 x 230/400														
Operating current max.	A	6,5			8			12			25			32		
Electric power consumption max.	kW	2,6			3,4			4,9			11,4			14		
Starting current (lasts for 2 periods)	A	40			51			70			167			198		
Pre-fuse, external	A	3x16			3x16			3x16			3x13/3x32			3x13/3x32		
Approx. weight (complete)	kg	102			110			116			400			450		
Refrigerant R407C	kg	2,1			2,1			2,1			7,0			7,0		

to type HT 150



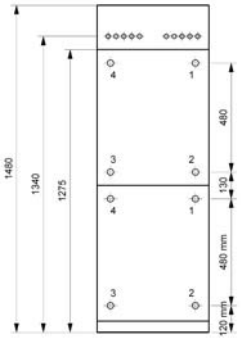
Depth 520 mm
View of rear panel
1 = Heating flow
2 = Heating return
3 = Cold water discharge
4 = Cold water supply
5 = Electrical connections
All 1" except HT 150 5/4"

to type HT 350



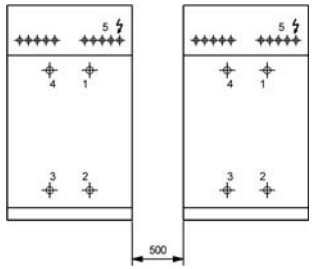
Depth 785 mm

View of rear panel
1 = Heating flow
2 = Heating return
3 = Cold water discharge
4 = Cold water supply
5 = Electrical connections
all 6/4"



1 SW + 1 HT module
to HT 150

1 SW 500 + 1 HT 350 module
or 1 SW 600 + 1 HT 350 module



Heat exchanger: material no.1.4401, V4A steel made of chromium-nickel-molybdenum
Type designation: egw for groundwater and eso for brine
Groundwater heat pumps with nickel brazed heat exchanger
HT 330 and HT 350 only available with copper brazed heat exchanger – in case of groundwater operation a secondary heat loop is necessary
Electrical protection system: IP41
Subject to alterations, Date 12/2010 Version 4.4 WT08

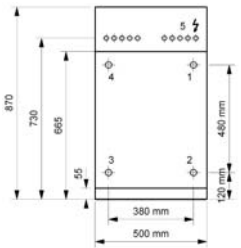
TECHNICAL DATA Groundwater Operation — WEIDER – Heat Pumps

HEAT PUMP TYPE	HT80	HT100	HT150	HT330	HT350

GROUNDWATER OPERATION with a feed temperature of 10 °C and heating flow temperature of 35, 55 and 65 °C

°C		35	55	65	35	55	65	35	55	65	35	55	65	35	55	65
Heating output	kW	8,5	7,9	7,6	10,3	9,7	9,2	15,4	14,4	14,1	33	29,2	27,4	40	35	34
Electric power consumption	kW	1,3	2,1	2,6	1,7	2,6	3,2	2,5	3,1	4,6	5,6	7,8	9,1	6,8	9,7	10,8
Coefficient of performance (ΔT 10 K)		6,2	3,7	2,8	6,2	3,7	2,9	6,1	3,6	2,9	5,9	3,6	3,0	5,9	3,6	3,0
Coefficient of performance (ΔT 5 K)		5,7	3,4	2,5	5,7	3,4	2,5	5,6	3,3	2,5	5,5	3,3	2,5	5,5	3,3	2,5
Volume flow rate – groundwater	m³/h	1,8			2,4			3,3			7,5			10		
Pressure drop – evaporator	mbar	100			110			150			150			150		
Temperature range – groundwater	°C	+7 to +20														
Volume flow rate - heating water	m³/h	0,7 to 1,5			0,9 to 2,6			2,8 to 5,7			2,8 to 5,7			3,4 to 6,9		
Pressure drop - heating water	mbar	10 to 40			10 to 40			40 to 90			30 to 120			30 to 120		
Temperature difference Δt	°C	5 to 10														
Feed temperature	°C	25 to 70														
Mains connection	V	2 x 230/400														
Operating current max.	A	6,5			10			11			25			32		
Electric power consumption max.	kW	3,5			4,5			5,9			11,4			14		
Starting current (lasts for 2 periods)	A	28			34			50			167			198		
Pre-fuse, external	A	3x16			3x16			3x16			3x13/3x32			3x13/3x32		
Approx. weight (complete)	kg	102			110			116			400			450		
Refrigerant R407C	kg	2,1			2,1			2,1			7,0			7,0		

to type HT 150



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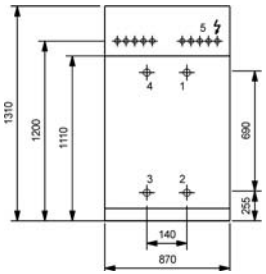
All 1" except HT 150 5/4"

to type HT 350



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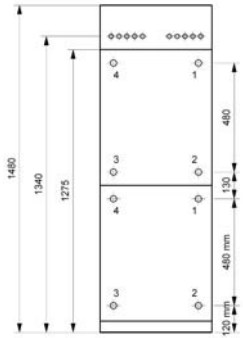
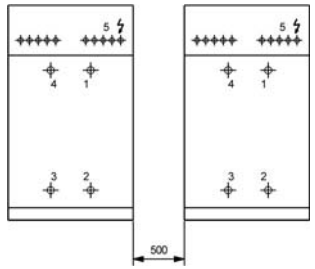


1 SW + 1 HT module
to HT 150

1 SW 500 + 1 HT 350 module
or 1 SW 600 + 1 HT 350 module



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