

technical data

Size (230M)				2.1	3.1	4.1	5.1	6.1	7.1	8.1		
Heating	Capacity	Water 35/30°C - Outdoor air 7°C	Nominal	kW	4,20	6,35	8,40	10,00	12,10	14,50	15,90	
	COP		Nominal	-	5,10	4,95	5,15	4,95	4,95	4,60	4,50	
	Capacity	Water 35/30°C - Outdoor air -7°C	Nominal	kW	4,70	6,00	7,00	8,00	10,00	12,00	13,10	
	COP		Nominal	-	3,10	3,00	3,20	3,05	3,00	2,85	2,70	
	Cooling	Capacity	Water 45/40°C - Outdoor air 7°C	Nominal	kW	4,30	6,30	8,10	10,00	12,30	14,10	16,00
		COP		Nominal	-	3,80	3,70	3,85	3,75	3,70	3,60	3,50
Capacity		Water 18/23°C - Outdoor air 35°C	Nominal	kW	4,50	6,50	8,30	9,90	12,00	13,50	14,90	
EER			Nominal	-	5,50	4,80	5,05	4,55	3,95	3,60	3,40	
Capacity		Water 7/12°C - Outdoor air 35°C	Nominal	kW	4,70	7,00	7,45	8,20	11,50	12,40	14,00	
EER			Nominal	-	3,45	3,00	3,35	3,25	2,75	2,50	2,50	
Electrical power for meter sizing				kW	3,50	3,50	6,50	6,50	6,50	6,50	6,50	
Seasonal efficiency Medium climate	Energy class				-	A++	A++	A++	A++	A++	A++	
	Heating 55°C	Annual energy consumption	kWh/year	2.749	3.348	4.064	4.541	6.916	6.917	7.213		
		SCOP	-	3,31	3,52	3,36	3,49	3,46	3,46	3,46		
	ηs (seasonal output)				%	129	138	131	137	135	135	
	Energy class				-	A+++	A+++	A+++	A+++	A+++	A+++	
	Heating 35°C	Annual energy consumption	kWh/year	2.354	2.849	3.223	3.649	5.156	5.157	6.011		
SCOP		-	4,85	4,95	5,21	5,19	4,81	4,81	4,72			
ηs (seasonal output)				%	191	195	205	205	189	189		
Indoor unit					2.1	3.1	4.1	5.1	6.1	7.1	8.1	
Power supply	Voltage/Frequency/Phases				V/Hz/n°	230/50/1						
Water flow-rate	Water 35/30°C - Outdoor air 7°C		Nominal	l/s	0,22	0,33	0,36	0,39	0,55	0,59	0,67	
Pump available pressure			Nominal	kPa	85,2	82,2	76,4	67,9	59,9	59,9	47,6	
Minimum system water content					l	20						
Expansion tank capacity					l	8						
Sound power			Nominal	dB(A)	55	58	59	60	65	65	68	
Sound pressure @1m			Nominal	dB(A)	41	44	45	45	50	50	53	
Operating range												
Water supply temperature	Heating	Minimum / Maximum	°C	30 / 65								
	Cooling	Minimum / Maximum	°C	5 / 25								
	DHW	Minimum / Maximum	°C	30 / 60								
Operating range (Outdoor air)	Heating	Minimum / Maximum	°C	-25 / 35								
	Cooling	Minimum / Maximum	°C	-5 / 43								
	DHW	Minimum / Maximum	°C	-25 / 43								

Size (400TN)				6.1	7.1	8.1	9.1	10.1	12.1	14.1		
Heating	Capacity	Water 35/30°C - Outdoor air 7°C	Nominal	kW	12,10	14,50	15,90	18,00	22,00	26,00	30,00	
	COP		Nominal	-	4,95	4,60	4,50	4,70	4,40	4,08	3,91	
	Capacity	Water 35/30°C - Outdoor air -7°C	Nominal	kW	10,00	12,00	13,10	18,00	21,00	22,00	23,00	
	COP		Nominal	-	3,00	2,85	2,70	2,70	2,60	2,50	2,45	
	Cooling	Capacity	Water 45/40°C - Outdoor air 7°C	Nominal	kW	12,30	14,10	16,00	18,00	22,00	26,00	30,00
		COP		Nominal	-	3,70	3,60	3,50	3,50	3,40	3,10	2,90
Capacity		Water 18/23°C - Outdoor air 35°C	Nominal	kW	12,00	13,50	14,90	18,50	23,00	27,00	31,00	
EER			Nominal	-	3,95	3,60	3,40	4,75	4,60	4,30	4,00	
Capacity		Water 7/12°C - Outdoor air 35°C	Nominal	kW	11,50	12,40	14,00	17,00	21,00	26,00	29,50	
EER			Nominal	-	2,75	2,50	2,50	3,05	2,95	2,70	2,55	
Electrical power for meter sizing				kW	6,50	6,50	6,50	10,60	12,50	13,80	14,50	
Seasonal efficiency Medium climate	Energy class				-	A++	A++	A++	A++	A+	A+	
	Heating 55°C	Annual energy consumption	kWh/year	7.214	7.894	7.895	11.396	14.363	17.116	19.552		
		SCOP	-	3,46	3,41	3,41	3,21	3,23	3,16	3,14		
	ηs (seasonal output)				%	135	133	133	125	126	123	
	Energy class				-	A+++	A+++	A+++	A+++	A+++	A+++	
	Heating 35°C	Annual energy consumption	kWh/year	6.012	6.803	6.805	8.077	10.167	11.513	14.372		
SCOP		-	4,72	4,62	4,62	4,61	4,54	4,50	4,20			
ηs (seasonal output)				%	186	182	182	181	179	177		
Outdoor unit					6.1	7.1	8.1	9.1	10.1	12.1	14.1	
Power supply	Voltage/Frequency/Phases				V/Hz/n°	400/50/3+N						
Water flow-rate	Water 35/30°C - Outdoor air 7°C		Nominal	l/s	0,55	0,59	0,67	0,81	1,00	1,24	1,41	
Pump available pressure			Nominal	kPa	47,6	33,1	33,1	101,9	94,6	78,8	59,4	
Minimum system water content					l	40						
Expansion tank capacity					l	8						
Sound power			Nominal	dB(A)	65	65	68	70	72	74	77	
Sound pressure @1m			Nominal	dB(A)	50	50	53	57	59	61	63	
Operating range												
Water supply temperature	Heating	Minimum / Maximum	°C	30 / 65								
	Cooling	Minimum / Maximum	°C	5 / 25								
	DHW	Minimum / Maximum	°C	30 / 60								
Operating range (Outdoor air)	Heating	Minimum / Maximum	°C	-25 / 35								
	Cooling	Minimum / Maximum	°C	-5 / 43								
	DHW	Minimum / Maximum	°C	-25 / 43								

PRELIMINARY DATA

Data according to EN 14511:2018 and EN 14825:2016

The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281).