



TECHNOLOGY BROCHURE

Heating with airborne and geothermal energy: **VITOCAL**





VITOCAL 350-G (BRINE/WATER)

Vitocal 350-G (single stage, master)	Type	BW 351.B20	BW 351.B27	BW 351.B33	BW 351.B42
Vitocal 350-G (2-stage, slave without own control unit)	Type	BWS 351.B20	BWS 351.B27	BWS 351.B33	BWS 351.B42
Performance data (to EN 14511, B0/W35°C, 5 K spread)					
Rated heating output	kW	20.5	28.7	32.7	42.3
COP ϵ in heating mode		4.8	4.9	5.0	4.8
Maximum flow temperature (5 K/12 K spread)	°C	65/70	65/70	65/70	65/70
Refrigerant circuit					
Refrigerant		R410A	R410A	R410A	R410A
– Refrigerant charge	kg	5.5	7.3	9.0	9.25
– Global warming potential (GWP)		2088	2088	2088	2088
– CO ₂ equivalent	t	11.5	15.2	18.8	19.3
Dimensions					
Length (depth)	mm	1085	1085	1085	1085
Width	mm	780	780	780	780
Height (control unit open)	mm	1267	1267	1267	1267
Weight					
Type BW	kg	270	285	310	315
Type BWS	kg	265	280	305	310
Energy efficiency class*		A++ / A++	A++ / A++	A++ / A++	A++ / A++

VITOCAL 350-G (WATER/WATER)

Vitocal 350-G (single stage, master)	Type	BW 351.B20	BW 351.B27	BW 351.B33	BW 351.B42
Vitocal 350-G (2-stage, slave without own control unit)	Type	BWS 351.B20	BWS 351.B27	BWS 351.B33	BWS 351.B42
Performance data (to EN 14511, B0/W35°C, 5 K spread)					
Rated heating output	kW	25.4	34.7	42.2	52.3
COP ϵ in heating mode		5.7	6.1	6.2	5.8
Maximum flow temperature (5 K/12 K spread)	°C	65/70	65/70	65/70	65/70



VITOCAL 300-G (BRINE/WATER)

Vitocal 300-G	Type	BW 301.A21	BW 301.A29	BW 301.A45
Vitocal 300-G	Type	BWS 301.A21	BWS 301.A29	BWS 301.A45
Performance data (to EN 14511, B0/W35°C, 5 K spread)				
Rated heating output	kW	21.2	28.8	42.8
COP ϵ in heating mode		4.7	4.8	4.6
Maximum flow temperature	°C	60	60	60
Refrigerant circuit				
Refrigerant		R410A	R410A	R410A
– Refrigerant charge	kg	4.7	6.2	7.7
– Global warming potential (GWP)		2088	2088	2088
– CO ₂ equivalent	t	11.5	13.0	16.1
Dimensions				
Length (depth)	mm	1085	1085	1085
Width	mm	780	780	780
Height	mm	1267	1267	1267
Weight				
Type BW	kg	245	272	298
Type BWS	kg	240	267	293
Energy efficiency class*		A++ / A++	A++ / A++	A++ / A++

VITOCAL 300-G (WATER/WATER)

Vitocal 300-G	Type	BW 301.A21	BW 301.A29	BW 301.A45
Vitocal 300-G	Type	BWS 301.A21	BWS 301.A29	BWS 301.A45
Performance data (to EN 14511, B0/W35°C, 5 K spread)				
Rated heating output	kW	28.1	37.1	58.9
COP ϵ in heating mode		5.9	6.0	5.5
Maximum flow temperature (5 K/12 K spread)	°C	60	60	60

* Energy efficiency class as per Regulation (EU) No. 811/2013 regarding heating under average climate conditions for low (W35)/medium temperature applications (W55)