



# VBIV 20 1F ErP Label A+ volgens EN14825 normering

According to the test EN14825 the unit VBIV 20 h energy Label A+

Weather Type		A	
Unit type	Heating & Cooling		
Water outlet type	variable		
	Value	Unit	
Using type	35.00	°C	
Tdesign	-10.00	°C	
TOL	-10.00	°C	
Tbiv	-7.00	°C	
Pbiv	6.99	kW	
Pdesign	7.91	kW	

Test condition	Dry bulb temp.	Wet bulb temp.	Outlet water temp.	Load rate	Heating capacity (Required)	Heating capacity (Testing data)	Power consumption	COP	Cc	Cru	COPbin	Compress or Frequency	Deviation
A	-7.00	-8.00	34.00	0.88	6.99	6.99	2.51	1.00	0.99	1.00	2.79	100.00	0.00
B	2.00	1.00	30.00	0.54	4.26	4.36	1.32	0.98	0.99	0.98	3.30	50.00	2.30
C	7.00	6.00	27.00	0.35	2.74	5.71	1.19	0.48	0.99	0.48	1.74	40.00	108.60
D	12.00	11.00	24.00	0.15	1.22	6.92	1.06	0.18	2.99	0.18	6.21	20.00	468.70
E(TOL)	-10.00	--	35.30	1.00	7.91	8.05	3.38	0.98	0.99	0.98	2.38	100.00	1.80
F(Tbiv)	-7.00	-8.00	34.00	0.88	6.99	6.99	2.51	1.00	0.99	1.00	2.79	100.00	0.00

Energy level	A+	--
ns	144.01	%
SCOP	3.68	W/W
SCOPon	3.68	
SCOPnet	3.68	
QH	1634.33	kWh
QHE	4444.48	kWhel
HHE	2066.00	hrs
HTO	179.00	hrs
HSB	0.00	hrs
HCK	179.00	hrs
HOFF	0.00	hrs
PTO	0.02	kW
PSB	0.02	kW
PCK	0.02	kW
POFF	0.02	kW

Bin	Ambient temp.	Hours	Heat Load	Heat load covered by the heat pump	Resistive Heat	Annual resistive heat	COPbin (Tj)	Annual heating demand	Annual energy input including electric back up heater	Net Annual heating capacity	Net Annual power input	
												J
Unit	°C	h	kW	kW	kW	kWh		kWh	kWh	kWh	kWh	
E	21.00	-10.00	1.00	7.91	8.05	-0.14	-0.14	2.38	7.91	3.24	8.05	3.38
	22.00	-9.00	25.00	7.60	7.69	-0.09	-2.31	2.52	190.05	74.12	192.37	76.44
A	23.00	-8.00	23.00	7.30	7.34	-0.05	-1.06	2.65	167.86	62.60	168.92	63.66
	24.00	-7.00	24.00	6.99	6.99	0.00	0.00	2.79	167.86	60.16	167.86	60.16
	25.00	-6.00	27.00	6.69	6.70	0.00	0.00	2.85	180.63	63.45	180.63	63.45
	26.00	-5.00	68.00	6.39	6.41	0.00	0.00	2.90	434.24	149.56	434.24	149.56
	27.00	-4.00	91.00	6.08	6.11	0.00	0.00	2.96	553.44	186.97	553.44	186.97
	28.00	-3.00	89.00	5.78	5.82	0.00	0.00	3.02	514.21	170.46	514.21	170.46
	29.00	-2.00	165.00	5.47	5.53	0.00	0.00	3.07	903.14	293.86	903.14	293.86
	30.00	-1.00	173.00	5.17	5.24	0.00	0.00	3.13	894.32	285.73	894.32	285.73
	31.00	0.00	240.00	4.87	4.94	0.00	0.00	3.19	1167.69	365.43	1167.69	365.43
	32.00	1.00	280.00	4.56	4.65	0.00	0.00	3.24	1277.17	393.78	1277.17	393.78
B	33.00	2.00	320.00	4.26	4.36	0.00	0.00	3.30	1362.31	412.82	1362.31	412.82
	34.00	3.00	357.00	3.95	4.03	0.00	0.00	3.35	1411.27	393.36	1411.27	393.36
	35.00	4.00	356.00	3.65	4.00	0.00	0.00	3.88	1299.06	335.21	1299.06	335.21
	36.00	5.00	303.00	3.34	5.17	0.00	0.00	4.16	1013.52	243.45	1013.52	243.45
	37.00	6.00	330.00	3.04	5.44	0.00	0.00	4.45	1003.49	225.46	1003.49	225.46
C	38.00	7.00	326.00	2.74	5.71	0.00	0.00	4.74	892.19	188.28	892.19	188.28
	39.00	8.00	348.00	2.43	5.95	0.00	0.00	5.03	846.58	168.22	846.58	168.22
	40.00	9.00	335.00	2.13	6.19	0.00	0.00	5.33	713.08	133.87	713.08	133.87
	41.00	10.00	315.00	1.82	6.43	0.00	0.00	5.62	574.72	102.25	574.72	102.25
	42.00	11.00	215.00	1.52	6.68	0.00	0.00	5.91	326.89	55.27	326.89	55.27
D	43.00	12.00	169.00	1.22	6.92	0.00	0.00	6.21	205.56	33.11	205.56	33.11
	44.00	13.00	151.00	0.91	7.16	0.00	0.00	6.50	137.75	21.18	137.75	21.18
	45.00	14.00	105.00	0.61	7.40	0.00	0.00	6.80	63.86	9.39	63.86	9.39
	46.00	15.00	74.00	0.30	7.64	0.00	0.00	7.09	22.50	3.17	22.50	3.17
									16331.29	4435.42	16334.81	4438.94
									SCOPon	3.68	SCOPnet	3.68



