VV

R-407C

WATER COOLED HEAT PUMP VERTICAL UNIT CONSOLE TYPE OR RECESSED

Size	Cooling [kW]	Heating [kW]
5	2,0	2,4
7	2,4	2,5
9	3,0	3,0
15	3,3	3,2
17	3,7	3,7

REPLACE: BT02F001GB-00

The Versatemp VV units offer a range of five efficient water to air reverse cycle heat pumps. The units feature R407C refrigerant, two double inlet centrifugal directed coupled fans with 3 speed sealed for the life motors. Optional fascia (for direct wall mounting installations) made from aluzink and painted in white RAL 9002. Units are designed for case of installation, service and maintenance.
The units automatically provide cooling or heating to ensure year round comfort. The microprocessor control system also provides other important functions such as monitoring and group control.
Options include cased, cased front entry air, basic for installation behind surround and basic with front entry return air. Plinth, grills and discharge ducts are all available to aid installation issues.

BT02F001GB-01

STANDARD UNIT SPECIFICATIONS

COMPRESSOR
hermetic rotary compressor with gas compression in the crankcase, direct suction, no oil heater. It is mounted on antivibration rubber pads. Includes oil feed.

STRUCTURE
structure made entirely from "aluzink" plate that guarantees excellent mechanical characteristics and high corrosion strength over time. The ventilating section is completely lined with anti-condensate and soundproofing material.

AIR EXCHANGER
direct expansion finned exchanger, made from copper pipes in staggered rows and mechanically expanded to the fin collars. The fins are made from aluminium with a corrugated surface and adequately distanced to ensure the maximum heat exchange efficiency.

WATER EXCHANGER
Full copper tube-in-tube exchanger, hermetically welded to the refrigerant circuit.
Checked at a pressure of 30 bars and welded in nitrogen atmosphere to avoid oxidation.
Includes antifreeze protection at water outlet.

FAN
dual intake centrifugal fan with forward blades for maximum efficiency and low noise. Statically- and dynamically-balanced according to the ISO 1940 standards, section 6.3. The scroll, the rotor and the frame are made from galvanized steel plate (semdzimir).
Directly coupled to the electric motor.

REFRIGERANT CIRCUIT
The circuit is complete with:
-liquid receiver
-high pressure switch
-4-way reverse cycle valve
-non-return valve
-expansion device

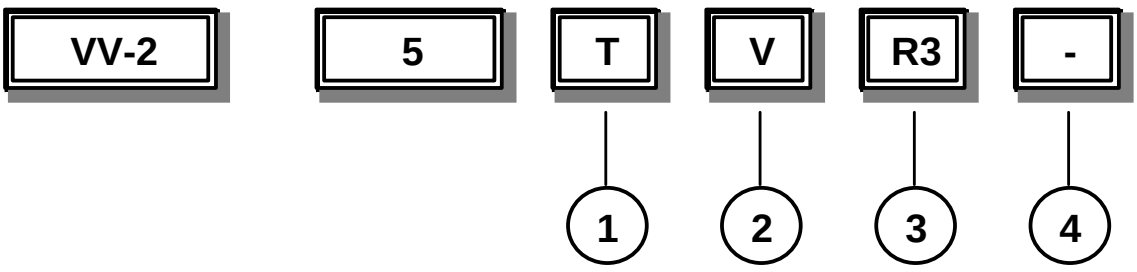
FILTRATION
NAN honeycomb mesh air filter made from neutral multiply polypropylene fabric (weighted efficiency A –gravimetric method – 48%).

TRAY
Inox steel AISI 304 condensate collection tray with anti-condensate insulation, welded, fitted with drain pipe

ELECTRICAL PANEL
the electrical panel, including the microprocessor controller, is positioned inside the units, with access through an easy-to-remove panel.
the Power Section includes:
-auxiliary circuit fuse
-power input terminals
-compressor control contactor
-isolating transformer for auxiliary circuit power supply
the control section includes:
-microprocessor control
-antifreeze protection
-electronic thermostat for air temperature control
-compressor overload protection and timer
-Versatemp control (english market)

ACCESSORIES
-manual two-way valve at the inlet and outlet of each exchanger on the water side. Used to isolate the unit from the water circuit to allow any maintenance operations.
-ON/OFF solenoid valve, water side
-electric resistance heating (for cooling only unit) - powers on request
-remote thermostat
-water flow setter (manual valve)
-painted plinth for floor standing arrangement
-outlet duct
-water circuit connection hoses plus condensate drain pipe
-outlet grille with flexible joint for architectural surround
-coil antifreeze protection sensor
-differential pressure switch, water side

CONFIGURATION CODE



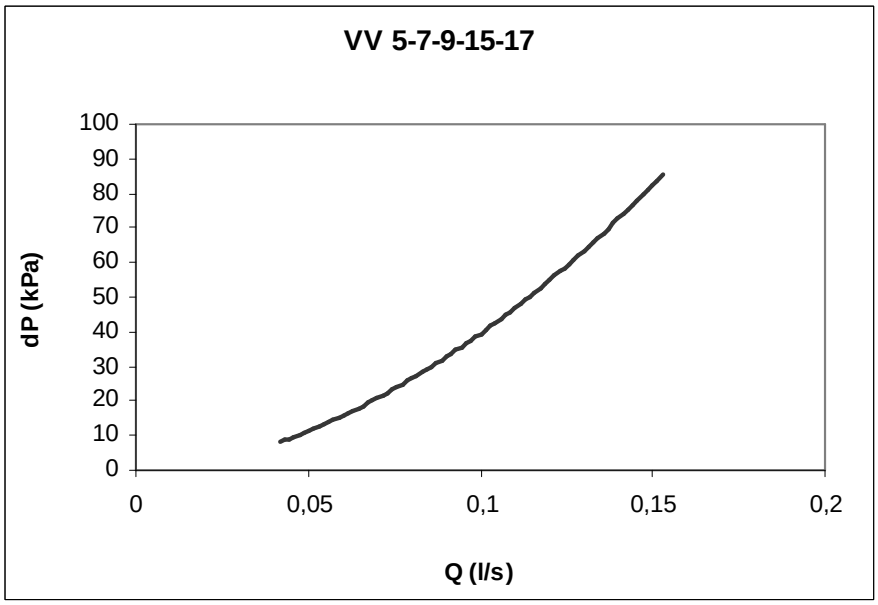
(1) CONTROL
Onboard keypad (T)
standard
remote keypad (TR)
unit supplied without onboard keypad

(2) CABINET
Vertical in view (V)
unit with RAL 9002 painted fascia
Vertical flush-mounted (VC)
unit supplied less fascia for mounting behind architectural surrounds

(3) INTAKE
Bottom intake (R3)
standard
Frontal return air inlet (FR)
upon request, the units can be supplied with front intake

(4) LOW TEMPERATURE
Low air temperature (B)
coil antifreeze protection sensor
Not required (-)
standard

CONDENSER PRESSURE DROP



Q = WATER FLOW
DP = PRESSURE DROP

SOUND LEVELS

FAN SPEED: Standard Speed (S)

Size	Sound Power Level (dB) Octave band (Hz)								Sound pressure level	Sound power level
	63	125	250	500	1000	2000	4000	8000	dB(A)	dB(A)
5	61	56	55	53	50	45	40	34	50	55
7	65	60	57	56	53	49	45	39	51	59
9	62	57	57	56	52	48	46	40	51	58
15	64	59	56	56	53	49	47	41	52	58
17	65	60	57	56	53	49	47	41	52	58

the sound levels are referred to a wall mounted unit, with cabinet and with several air flow. The sound pressure level is referred at a distance of 1 m. from unit surface working in free field conditions.

FAN SPEED: Medium speed (M)

Size	Sound Power Level (dB) Octave band (Hz)								Sound pressure level	Sound power level
	63	125	250	500	1000	2000	4000	8000	dB(A)	dB(A)
5	59	54	53	49	46	44	34	28	46	54
7	60	55	53	45	49	44	39	33	46	53
9	61	56	53	53	48	44	42	36	48	54
15	62	57	53	54	50	47	45	39	50	56
17	62	57	54	54	51	47	46	40	50	56

FAN SPEED: Low speed (L)

Size	Sound Power Level (dB) Octave band (Hz)								Sound pressure level	Sound power level
	63	125	250	500	1000	2000	4000	8000	dB(A)	dB(A)
5	57	52	52	46	44	37	32	26	41	49
7	60	55	52	47	46	39	35	29	43	50
9	60	55	49	50	43	42	37	31	45	51
15	60	55	49	50	43	42	37	31	48	54
17	60	55	49	50	48	46	44	38	48	54

GENERAL TECHNICAL SPECIFICATIONS

Size			**5**	**7**	**9**	**15**	**17**
COOLING							
Cooling capacity	1	kW	2	2,4	3	3,3	3,7
Sensible capacity	2	kW	1,8	2,2	2,8	2,8	3,2
Compressor power input	2	kW	0,5	0,7	0,8	1	1,2
Total power input	2	kW	0,6	0,8	0,9	1,1	1,3
HEATING							
Heat output	3	kW	2,4	2,5	3	3,2	3,7
Compressor power input	4	kW	0,5	0,6	0,8	0,9	1
Total power input	4	kW	0,6	0,7	0,9	1	1,1
COMPRESSOR							
Type of compressors	5		ROT	ROT	ROT	ROT	ROT
No. of Compressors		Nr	1	1	1	1	1
AIR HANDLING SECTION							
Front surface		m2	0,15	0,15	0,15	0,186	0,186
Number of rows		Nr	2	2	2	3	3
Fin spacing		mm	2,1	2,1	2,1	2,1	2,1
AIR HANDLING SECTION FANS (OUTLET)							
Type of fans	6		CFG	CFG	CFG	CFG	CFG
Standard air flow		l/s	180	180	180	220	220
Installed unit power		kW	0,1	0,1	0,1	0,14	0,14
CONDENSER							
Water flow-rate	7	l/s	0,064	0,064	0,075	0,114	0,114
Pressure drop		kPa	16	16	23	46	46
CONNECTIONS							
Water fittings	8	mm	1/2"	1/2"	1/2"	1/2"	1/2"
Condensate discharge	9	mm	15	15	15	15	15
STANDARD UNIT WEIGHTS							
Shipping weight		kg	60	61	61	64	67
DIMENSIONS							
Length	10	mm	1122	1122	1122	1263	1263
Depth	10	mm	242	242	242	242	242
Height	10	mm	589	589	589	589	589

(1) Ambient temperature 27°C/19.5 WB
evaporator inlet water 30°C
deducted the fan power absorption
(2) Ambient temperature 27°C/19.5 WB
evaporator inlet water 30°C
(3) ambient temperature 20°C DB
exchanger water inlet 20°C
deducted the fan power absorption
(4) ambient temperature 20°C DB
exchanger water inlet 20°C
(5) ROT = rotary compressor
(6) CFG = centrifugal fan
(7) tolerance allowed +/- 20%
(8) female GAS fitting
(9) pipe outside diameter
(10) dimensions relating to the unit with cabinet

ELECTRICAL DATA

Size			**5**	**7**	**9**	**15**	**17**
F.L.A. - FULL LOAD CURRENT AT MAX ADMISSIBLE CONDITIONS							
Compressor 1 (230/1/50)		A	3	3,6	4,3	6	6,3
Outlet fan (230/1/50)		A	0,8	0,8	0,8	0,8	0,8
Total (230/1/50)		A	3,8	4,4	5,1	6,8	7,1
L.R.A. LOCKED ROTOR AMPERES							
Compressor 1 (230/1/50)		A	15,5	20,5	24	35	35
Outlet fan (230/1/50)		A	1	1	1	1	1
M.I.C. MAXIMUM INRUSH CURRENT							
Value (230/1/50)		A	16,5	21,5	25	36	36

Voltage
230/1/50

OPERATING LIMITS (COOLING)

Size			5	7	9	15	17
CONDENSER							
Max water inlet temperature	1	°C	45	45	45	45	45
Min. water inlet temperature	1	°C	18	18	18	18	18
Maximum water side pressure		bar	13,8	13,8	13,8	13,8	13,8
EVAPORATOR							
Min air inlet temperature (W.B.)	2	°C	13	13	13	13	13
Max. air temperature inlet (D.B.)		°C	29	29	29	29	29
Max ambient relative humidity		%	70	70	70	70	70

OPERATING LIMITS (HEATING)

CONDENSER							
Max water inlet temperature	1	°C	45	45	45	45	45
Min. water inlet temperature	1	°C	18	18	18	18	18
Maximum water side pressure		bar	13,8	13,8	13,8	13,8	13,8
Max. air temperature inlet (D.B.)		°C	29	29	29	29	29

DB = dry bulb
WB = wet bulb

(1) with nominal water flow
(2) we recommend the defrost sensor

AIR FLOW / FAN SPEED

Size			5	7	9	15	17
Air flow (minimum speed)	1	l/s	90	90	90	125	125
Air flow (medium speed)	1	l/s	130	130	130	175	175
Air flow (maximum speed)	1	l/s	180	180	180	220	220

VOLTAGE
230/1/50

PERFORMANCE CORRECTION COEFFICIENTS (AIR STANDARD FLOW-RATE ASSUMED AS 1)

	L					M					S				
	Kf	**Ks**	**Kt**	**Kef**	**Ket**	**Kf**	**Ks**	**Kt**	**Kef**	**Ket**	**Kf**	**Ks**	**Kt**	**Kef**	**Ket**
5	0,90	0,89	0,94	0,97	1,02	0,97	0,96	0,98	0,98	1,01	1,00	1,00	1,00	1,00	1,00
7	0,90	0,88	0,94	0,97	1,08	0,98	0,95	0,96	0,99	1,03	1,00	1,00	1,00	1,00	1,00
9	0,93	0,95	0,95	0,95	1,00	0,99	0,99	0,97	0,97	1,00	1,00	1,00	1,00	1,00	1,00
15	0,93	0,91	0,96	0,89	1,07	0,98	0,97	0,98	0,98	1,02	1,00	1,00	1,00	1,00	1,00
17	0,93	0,91	0,96	0,89	1,07	0,98	0,97	0,98	0,98	1,02	1,00	1,00	1,00	1,00	1,00

VOLTAGE
230/1/50

LOW SPEED (L)
MEDIUM SPEED (M)
STANDARD SPEED (S)
KF = COOLING PERFORMANCE MULTIPLICATION COEFFICIENT
KS= SENSIBLE OUTPUT MULTIPLICATION COEFFICIENT
KT = HEATING PERFORMANCE MULTIPLICATION COEFFICIENT
KEF = COMPRESSOR POWER INPUT MULTIPLICATION COEFFICIENT IN COOLING OPERATION
KET = COMPRESSOR POWER INPUT MULTIPLICATION COEFFICIENT IN HEATING OPERATION

COOLING PERFORMANCE

Size	Ta (°C) DB/WB	WATER OULET TEMPERATURE (°C) (DT = 8°C)																	
		28			33			38			43			48			50		
		kWf	kWe	kWs	kWf	kWe	kWs	kWf	kWe	kWs	kWf	kWe	kWs	kWf	kWe	kWs	kWf	kWe	kWs
5	22 / 16	1,80	0,49	1,63	1,83	0,48	1,64	1,81	0,49	1,65	1,76	0,52	1,66	1,67	0,58	1,67	1,62	0,61	1,62
	24 / 17	1,86	0,50	1,75	1,89	0,49	1,76	1,87	0,50	1,77	1,81	0,53	1,78	1,72	0,59	1,72	1,67	0,62	1,67
	26 / 19	1,98	0,51	1,74	2,00	0,50	1,75	1,98	0,52	1,76	1,92	0,55	1,77	1,81	0,61	1,78	1,76	0,64	1,76
	27 / 19,5	2,01	0,52	1,80	2,03	0,51	1,81	2,01	0,52	1,82	1,94	0,56	1,83	1,84	0,62	1,84	1,78	0,65	1,78
	28 / 21	2,10	0,53	1,73	2,11	0,52	1,74	2,09	0,53	1,75	2,02	0,57	1,76	1,91	0,63	1,77	1,85	0,66	1,77
	30 / 22	2,16	0,54	1,86	2,17	0,53	1,87	2,14	0,54	1,88	2,07	0,58	1,89	1,95	0,65	1,90	1,89	0,68	1,89
7	22 / 16	2,20	0,65	2,03	2,21	0,65	2,04	2,18	0,67	2,05	2,11	0,71	2,05	2,00	0,77	2,00	1,94	0,81	1,94
	24 / 17	2,27	0,66	2,18	2,28	0,66	2,18	2,25	0,68	2,19	2,18	0,72	2,18	2,07	0,79	2,07	2,01	0,82	2,01
	26 / 19	2,42	0,68	2,16	2,43	0,68	2,16	2,40	0,70	2,17	2,33	0,75	2,17	2,21	0,82	2,18	2,15	0,85	2,15
	27 / 19,5	2,46	0,69	2,20	2,47	0,68	2,21	2,44	0,71	2,22	2,36	0,75	2,22	2,25	0,83	2,23	2,19	0,86	2,19
	28 / 21	2,58	0,70	2,04	2,58	0,70	2,05	2,55	0,73	2,06	2,48	0,78	2,07	2,38	0,86	2,08	2,32	0,89	2,08
	30 / 22	2,66	0,72	2,06	2,66	0,72	2,07	2,63	0,74	2,08	2,56	0,80	2,09	2,47	0,88	2,10	2,42	0,92	2,10
9	22 / 16	2,74	0,75	2,54	2,74	0,75	2,54	2,69	0,77	2,55	2,60	0,82	2,55	2,46	0,88	2,46	2,39	0,92	2,39
	24 / 17	2,82	0,75	2,69	2,82	0,76	2,69	2,78	0,78	2,70	2,68	0,83	2,68	2,54	0,90	2,54	2,47	0,93	2,47
	26 / 19	3,01	0,77	2,69	3,01	0,78	2,70	2,96	0,81	2,70	2,86	0,86	2,70	2,72	0,94	2,71	2,65	0,98	2,65
	27 / 19,5	3,05	0,78	2,77	3,05	0,79	2,77	3,00	0,82	2,78	2,91	0,87	2,78	2,77	0,95	2,77	2,70	0,99	2,70
	28 / 21	3,20	0,80	2,69	3,19	0,81	2,69	3,14	0,85	2,68	3,05	0,90	2,68	2,92	0,99	2,68	2,85	1,03	2,68
	30 / 22	3,30	0,82	2,85	3,29	0,83	2,85	3,24	0,87	2,84	3,15	0,93	2,84	3,02	1,01	2,83	2,96	1,05	2,83
15	22 / 16	3,10	0,92	2,58	3,06	0,95	2,57	2,97	1,01	2,55	2,84	1,08	2,53	2,67	1,17	2,52	2,58	1,21	2,51
	24 / 17	3,21	0,92	2,74	3,16	0,96	2,72	3,07	1,01	2,70	2,94	1,08	2,69	2,76	1,17	2,67	2,68	1,21	2,66
	26 / 19	3,42	0,91	2,73	3,36	0,95	2,71	3,27	1,01	2,70	3,14	1,08	2,69	2,97	1,17	2,68	2,89	1,21	2,67
	27 / 19,5	3,47	0,91	2,81	3,41	0,95	2,80	3,32	1,01	2,79	3,19	1,08	2,78	3,02	1,17	2,77	2,94	1,21	2,76
	28 / 21	3,64	0,91	2,75	3,57	0,95	2,75	3,47	1,01	2,75	3,34	1,08	2,75	3,18	1,17	2,76	3,11	1,21	2,76
	30 / 22	3,75	0,90	2,93	3,68	0,94	2,94	3,58	1,00	2,95	3,45	1,07	2,97	3,30	1,16	2,98	3,23	1,21	2,99
17	22 / 16	3,56	1,04	2,93	3,46	1,07	2,92	3,33	1,13	2,91	3,17	1,23	2,90	2,98	1,35	2,89	2,89	1,40	2,88
	24 / 17	3,67	1,04	3,06	3,58	1,09	3,05	3,45	1,16	3,04	3,28	1,26	3,03	3,08	1,38	3,02	2,98	1,44	2,98
	26 / 19	3,89	1,06	3,10	3,79	1,13	3,09	3,65	1,22	3,09	3,48	1,34	3,08	3,26	1,47	3,07	3,17	1,53	3,06
	27 / 19,5	3,95	1,07	3,25	3,84	1,15	3,24	3,70	1,24	3,23	3,52	1,36	3,22	3,31	1,49	3,21	3,22	1,55	3,20
	28 / 21	4,11	1,09	3,42	3,99	1,18	3,40	3,84	1,29	3,39	3,65	1,42	3,38	3,45	1,56	3,37	3,35	1,62	3,35
	30 / 22	4,22	1,11	3,98	4,08	1,21	3,96	3,92	1,33	3,92	3,74	1,46	3,74	3,53	1,62	3,53	3,45	1,68	3,45

data refers to the following conditions :
deducted the fan power absorption
data at variable water flow: at costant water flow, the IN/OUT water temperature changes according to working conditions

Ta = evaporator inlet air temperature
DB = dry bulb
WB = wet bulb
kWf = Cooling capacity in kW
kWs = sensible cooling capacity (kW)
kWe = Compressor power input in kW

HEATING PERFORMANCE

Size	Ta (°C)	WATER OULET TEMPERATURE (°C) (DT = 8°C)											
		7		12		17		22		24		27	
		kWt	kWe	kWt	kWe	kWt	kWe	kWt	kWe	kWt	kWe	kWt	kWe
5	14	2,15	0,41	2,45	0,46	2,69	0,49	2,87	0,53	2,92	0,54	2,99	0,55
	16	2,12	0,43	2,42	0,48	2,66	0,51	2,84	0,55	2,90	0,56	2,96	0,57
	18	2,09	0,46	2,39	0,50	2,64	0,53	2,82	0,57	2,87	0,58	2,94	0,59
	19	2,08	0,47	2,38	0,51	2,62	0,54	2,80	0,58	2,86	0,59	2,92	0,61
	20	2,07	0,48	2,37	0,52	2,61	0,56	2,79	0,59	2,84	0,60	2,91	0,62
	21	2,05	0,49	2,36	0,53	2,60	0,57	2,78	0,60	2,83	0,61	2,89	0,63
	22	2,04	0,49	2,35	0,54	2,59	0,58	2,76	0,61	2,82	0,63	2,87	0,64
7	14	2,26	0,49	2,59	0,54	2,87	0,59	3,11	0,64	3,19	0,66	3,29	0,68
	16	2,25	0,51	2,58	0,57	2,85	0,62	3,07	0,66	3,14	0,68	3,22	0,71
	18	2,23	0,54	2,56	0,59	2,83	0,64	3,03	0,69	3,10	0,71	3,18	0,73
	19	2,23	0,55	2,55	0,60	2,82	0,66	3,02	0,70	3,09	0,72	3,16	0,75
	20	2,22	0,56	2,54	0,62	2,81	0,67	3,01	0,72	3,08	0,74	3,16	0,76
	21	2,21	0,57	2,53	0,63	2,80	0,68	3,00	0,73	3,07	0,75	3,15	0,78
	22	2,20	0,58	2,52	0,64	2,78	0,69	3,00	0,75	3,07	0,77	3,16	0,80
9	14	2,77	0,69	3,12	0,74	3,44	0,79	3,71	0,86	3,81	0,89	3,95	0,94
	16	2,75	0,72	3,09	0,77	3,41	0,83	3,70	0,90	3,82	0,93	3,98	0,99
	18	2,73	0,74	3,07	0,79	3,38	0,86	3,67	0,93	3,78	0,97	3,94	1,02
	19	2,71	0,75	3,06	0,81	3,37	0,87	3,65	0,95	3,75	0,98	3,89	1,04
	20	2,70	0,77	3,05	0,82	3,36	0,89	3,62	0,97	3,71	1,00	3,83	1,05
	21	2,69	0,78	3,05	0,84	3,34	0,91	3,58	0,98	3,66	1,01	3,75	1,06
	22	2,67	0,79	3,04	0,85	3,33	0,92	3,54	0,99	3,59	1,02	3,66	1,07
15	14	2,80	0,73	3,16	0,78	3,45	0,81	3,65	0,82	3,71	0,82	3,78	0,82
	16	2,81	0,77	3,16	0,81	3,43	0,84	3,62	0,85	3,67	0,84	3,72	0,84
	18	2,81	0,81	3,15	0,85	3,41	0,87	3,59	0,87	3,63	0,87	3,68	0,86
	19	2,81	0,83	3,15	0,86	3,40	0,88	3,57	0,89	3,62	0,88	3,67	0,88
	20	2,81	0,85	3,14	0,88	3,39	0,90	3,56	0,90	3,61	0,90	3,66	0,89
	21	2,80	0,87	3,13	0,90	3,38	0,91	3,55	0,91	3,60	0,91	3,65	0,91
	22	2,80	0,89	3,12	0,91	3,37	0,93	3,54	0,93	3,59	0,93	3,64	0,92
17	14	3,39	0,93	3,76	0,97	4,07	1,02	4,33	1,08	4,41	1,11	4,52	1,15
	16	3,35	0,94	3,73	1,00	4,06	1,06	4,34	1,14	4,44	1,18	4,58	1,23
	18	3,32	0,96	3,70	1,03	4,04	1,11	4,32	1,20	4,42	1,24	4,55	1,30
	19	3,30	0,96	3,70	1,05	4,03	1,13	4,30	1,23	4,39	1,26	4,51	1,32
	20	3,28	0,97	3,69	1,07	4,02	1,16	4,27	1,25	4,35	1,29	4,45	1,34
	21	3,26	0,98	3,68	1,08	4,01	1,18	4,24	1,27	4,30	1,31	4,36	1,36
	22	3,24	0,99	3,68	1,10	4,00	1,21	4,20	1,30	4,24	1,33	4,26	1,37

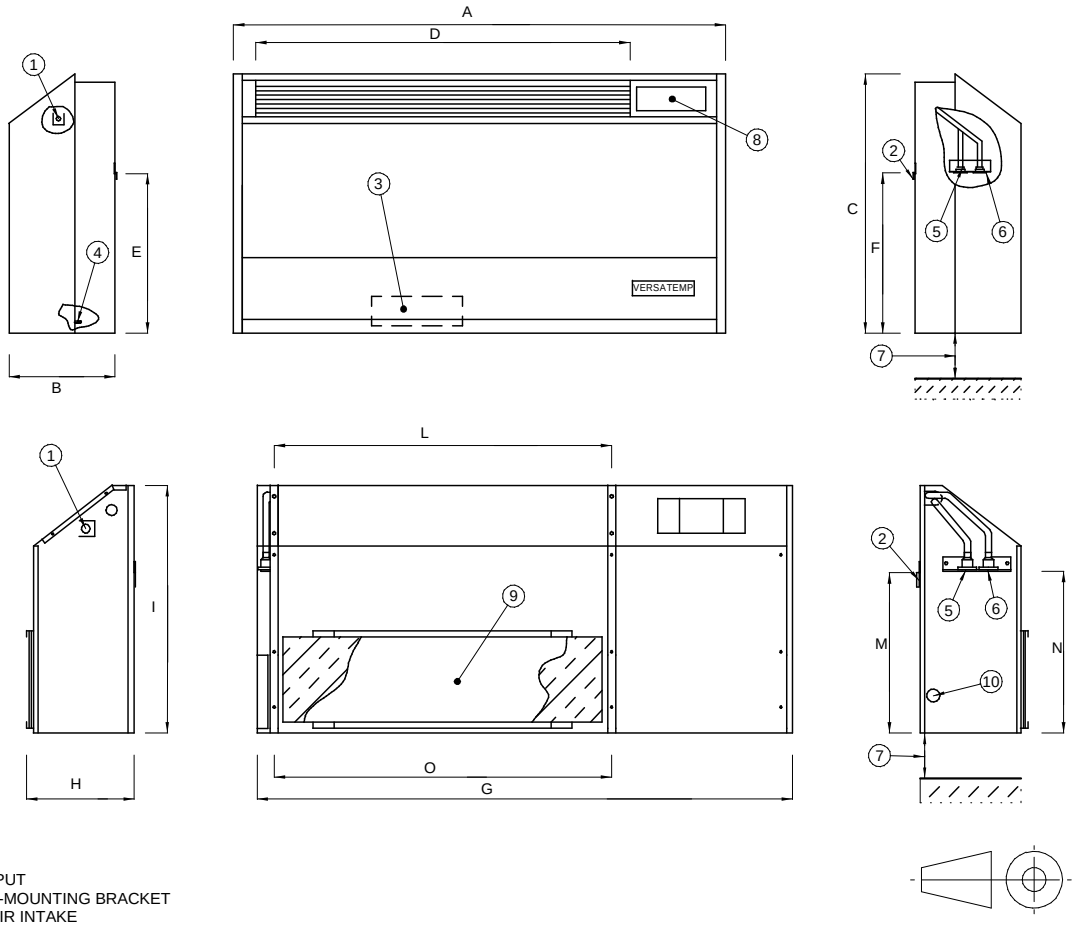
data refers to the following conditions :
deducted the fan power absorption
data at variable water flow: at costant water flow, the IN/OUT water temperature changes according to working conditions

Ta = condenser air intake temperature
kWt = heating capacity (kW)
kWe = Compressor power input in kW

DIMENSIONAL DRAWING

Size			5	7	9	15	17
A		mm	1122	1122	1122	1263	1263
B		mm	242	242	242	242	242
C		mm	589	589	589	589	589
D		mm	995	995	995	995	995
E		mm	358	358	358	358	358
F		mm	368	368	368	368	368
G		mm	1080	1080	1080	1221	1221
H		mm	240	240	240	240	240
I		mm	560	560	560	560	560
L		mm	685	685	685	827	827
M		mm	358	358	358	358	358
N		mm	368	368	368	368	368
O		mm	566	566	566	797	797

DIMENSIONAL DRAWING



(1) POWER INPUT
(2) UNIT WALL-MOUNTING BRACKET
(3) OUTSIDE AIR INTAKE
(4) FAIRING FASTENING SYSTEM (COMPRESSION)
(5) CONDENSER WATER INLET
(6) CONDENSER WATER OUTLET
(7) MINIMUM DISTANCE BETWEEN UNIT AND LOWER SURFACE (100 MM)
(8) UNIT MOUNTED THERMOSTAT
(9) FRONT AIR INTAKE (OPTIONAL)
(10) CONDENSATE DRAIN PIPE OUTLET

CLIVET S.P.A.
Feltre (BL) ITALY
Tel. +39 0439 3131
Fax +39 0439 313300
info@clivet.it

CLIVET ESPAÑA SA
Madrid SPAIN
Tel. +34 91 6852344
Fax +34 91 6852355
info@clivet.es

CLIVET UK LTD
Sevenoaks (Kent) U.K.
Tel. +44 (0) 1732 464141
Fax +44 (0) 1732 741575
info@clivetaircon.co.uk

Fareham (Hampshire) U.K.
Tel. +44 (0) 1489 572238
Fax +44 (0) 1489 573033
info@clivet-uk.co.uk