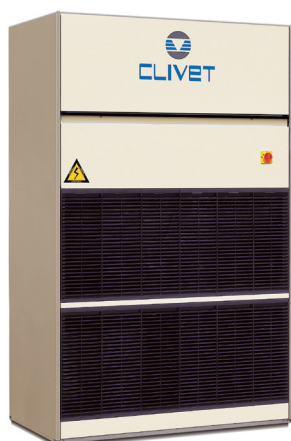


## Packaged air-conditioning unit

- ▶ Heat pump
- Water cooled
- Vertical indoor installation
- Ductable

**Capacity from 9 to 77 kW**



### THTUNE command and control keypad

Main functions:

- ▶ temperature and humidity measurement through built-in probes
- ▶ unit on/off
- ▶ unit main information
- ▶ ventilation-only setting
- ▶ daily/weekly programming
- ▶ temperature set-point modification
- ▶ humidity set-point modification
- ▶ manual or automatic summer/winter selection

# VERSATEMP



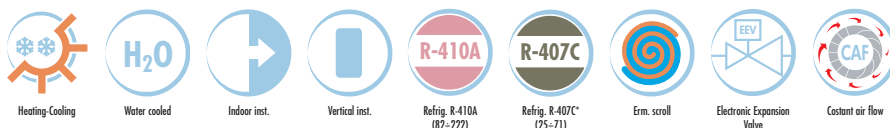
The autonomous air conditioners in the **CHV-X** range are vertical water to air heat pumps for either visible or concealed indoor installation.

Designed for climate control in shops, commercial areas, open plan offices and production areas, they can be combined with closed loop or open loop systems, thanks to the plumbing connection assemblies available.

Its high energy efficiency also makes it possible to reduce energy consumption and running costs.

These are highly efficient and versatile units thanks to solutions such as the innovative reversible heat pump cooling only circuit, the advanced microprocessor regulation, the new plug-fans with automatic air flow control option, the modular inlet and outlet mouth positions and the wide range of accessories available.

## functions and features



(\*) Units with R-410A refrigerant available from second semester 2010

## available configurations

CHV-X	102	(1)			(2)		(3)
		RF	MF	ASX	MF	ASX	

### (1) RETURN:

- ▶ **RF** Front return
- ▶ **R3** Return from below (only sizes 82÷222)
- ▶ **R4** Rear return

### (2) SUPPLY:

- ▶ **MF** Front supply
- ▶ **M5** Upward supply
- ▶ **MP** Rear outlet

### (3) WATER FITTINGS:

- ▶ **ASX** Left-hand water fittings
- ▶ **ADX** Water fittings to right

## accessories

- ▶ Anti-ice electric heater protection on the water side exchanger
- ▶ Ambient temperature and humidity control with on-board probes and THTUNE command and control keypad
- ▶ Steel mesh filter on water side
- ▶ Plumbing assembly for loop with constant flow rate
- ▶ Plumbing assembly for loop with variable flow rate
- ▶ Plumbing assembly for system with disposable water
- ▶ Air side dirty filters differential pressure switch
- ▶ RS485 remote communication serial port
- ▶ Serial communication module LonWorks
- ▶ Copper/copper evaporator coil
- ▶ Hot water coil with 2 rows
- ▶ 3-way modulating valve
- ▶ Electric heaters
- ▶ Phase monitor
- ▶ Hot gas post-heating coil
- ▶ Constant supply air flow-rate
- ▶ Immerse electrode steam humidifier
- ▶ Rubber antivibration mounts

### Key to symbols:

- Accessories supplied separately.

## technical data

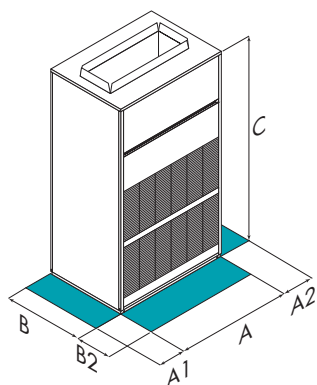
Sizes			25	31	41	51	61	71	82	102	122	162	182	222
▶ Cooling capacity	(1)	kW	9,0	12,4	15,9	18,1	21,0	24,3	34,9	39,9	48,9	57,1	67,2	76,8
Sensible cooling capacity	(1)	kW	6,6	8,9	11,7	13,1	15,3	17,0	26,8	29,9	37,3	44,2	51,5	57,1
Compressor input	(1)	kW	1,80	2,40	2,95	3,40	4,10	4,60	6,40	7,46	9,21	10,2	12,2	14,6
EER	(1)	-	5,02	5,16	5,39	5,31	5,12	5,27	5,45	5,35	5,31	5,61	5,50	5,25
▶ Heating capacity	(2)	kW	10,0	13,8	17,5	19,8	23,1	26,6	39,4	45,4	54,7	64,8	75,4	87,6
Compressor input	(2)	kW	1,90	2,57	3,23	3,71	4,28	4,85	7,29	8,55	9,65	11,6	13,5	16,3
COP	(2)	-	5,25	5,36	5,43	5,36	5,40	5,48	5,41	5,30	5,67	5,58	5,59	5,39
Number and type of compressors	-		1 SCROLL						2 SCROLL					
Number and type of circulating fans	(3)	-	1 RAD						2 RAD					
Supply air flow rate		l/s	528	667	833	972	1167	1389	1944	2222	2778	3194	3611	4167
Max. working static pressure for supply		Pa	200	180	160	140	220	200	210	190	200	180	190	170
Sound pressure level	(4)	dB(A)	55	57	63	64	60	61	62	64	66	67	68	66
Power supply		V/Ph/Hz	400/3/50											

### Data referred to the following conditions:

- (1) Ambient air 27°C/19°C W.B.; external exchanger water 30/35 °C; EER refers to the compressors only  
 (2) Ambient air 20°C; water at exchanger outlet 12°C; the COP refers to the compressors only  
 (3) RAD = radial-blade fan

- (4) Sound levels refer to units with full load under nominal test conditions. The sound pressure is measured at 1 m from the external surface of the unit in open field conditions.

## dimensions and clearances



Sizes		25	31	41	51	61	71	82	102	122	162	182	222
Length (A)	mm	650	650	850	850	1050	1050	1050	1050	1450	1450	1850	1850
Width (B)	mm	650	650	650	650	650	650	780	780	780	780	780	780
Height (C)	mm	1720	1720	1720	1720	1720	1720	2000	2000	2000	2000	2000	2000
▶ (A1)	mm	400	400	400	400	400	400	400	400	400	400	400	400
(A2)	mm	400	400	400	400	400	400	400	400	400	400	400	400
(B2)	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

The above data refer to standard units.

**CAUTION!** For trouble-free operation of the unit it is essential to maintain the clearances in green.