inventor®

Your-conditions

CHILLER / FAN COIL UNITS
CATALOGUE
2008-2009

inventor group matched its long tradition in the air conditioning market with a new proposal of water chilled and fan coil systems product range.

A special attention is paid to the global warming and ozone depletion issues not only in terms of use of environmentally friends' refrigerants, but also on a dramatic reduction of leakages.

In Europe are operated 3 plants which manufacture mainly these products and are split up to be manufactured in each production site according to its domain of excellence:

- Barlassina facility, Milano/Italy: produces a large range of air cooled and water cooled chillers, in cooling only and heat pump versions.
- Tillières - sur Avre facility, Normandie/France: produces packaged units (such as rooftop units), water terminals (cassettes, residential fan coil units and high pressure fan coil units), water source heat pumps either for industrial, commercial or residential markets.
- Pons facility, Charente-maritime/France: produces large of air handling units with air volume from 1.000 to 110.000 m^3/h.

WATER CHILLERS

A water chiller is an industrial water refrigeration apparatus that produces cold water to cool industrial process equipment. It is a complete system filled with refrigeration equipment, including a condenser, refrigerant, pipes, coolant expansion reservoir, pumps and so on.
Water chillers are a popular alternative for industrial facilities growing fast enough that the move from city water to specialized chilling units becomes cost-effective. Their advantage is that the coolant water comes into contact with air in a tower, but stays in a closed circuit in a water chiller system.
Water chillers conserve water by cycling the coolant, rather than continuously pumping in city water.

FAN COIL UNITS

Fan coil units provide heating, cooling or both to individual spaces. They can be mounted in freestanding cabinets, inside walls, in ceiling plenums, or in other locations. Fan coil units usually discharge air directly from their enclosures, although some may be installed with short ducts.
Units may have separate heating and cooling coils, or a single water coil may be used for both functions.
Typically have control panels to allow occupants to select heating or cooling, to select the fan speed.

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air cooled water chillers - heat pumps

		Refrigerant	Cooling capacity range (kW)	Page
MQL/MQH 4 to 17		R407C	4.5-16.5	6
AQL/AQH 20 to 130		R410A (20 to 35) / R407C	21-131	7
AQCL 25 to 130 / AQCH 25 to 80		R407C	25-125 / 25-76	8
VLS/VLH/VLR 524 to 1204		R410A	137-308	9
SLS 1402 to 8404 / SLH 1202 to 3804		R134a (SLS) / R407C	293-1686 / 260-792	10

water cooled water chillers

SWS-SWR 1002 to 4402 / 1602 to 4802		R 407C / R134a	291-1148 / 272-1118	12
RWC/RWR 170 to 360		R407C	161-312	13
CWP-CO/CWP-HP		R407C	8-136	14

chilled water terminal products

FAN CONVECTORS AQU@FAN II		1.97-14	15
CHILLED WATER WALL MOUNTED UNITS WSW		1.8-3.7	17
CHILLED WATER CASSETES WKW		2.2-10.2	
1-WAY CHILLED WATER CASSETES KCO LN		1.7-4.3	

chilled water terminal products

LOW & HIGH STATIC PRESSURE FAN COIL UNITS VH2N		0.4-27.7	18
STATIC PRESSURE FAN COIL UNITS		0.5-9.5	
DUCTABLE FAN COIL UNITS VPX		1-4.8	

rooftop

ROOFT@IR RTL/RTH 40 to 110		41-108	19
ROOFTECH RTCL/RTCH 100 to 160		101-158	20

water source heat pumps

HWR 007 to 120		1.9-29.9	21

air handling units

		Air volume range (m³/h)	Page
WESPAK 1.39, 2.69, 3.99		500-3600	22
WESPAK 4.05, 5.05, 6.05		4000-9000	
PREMI@IR PR 20 to 360		1500-30000	23
@IRTWIN TR 20 to 1000		1500-110000	

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air cooled water chillers - heat pumps

MQL/MQH 4 to 17

- 7 cooling models from 4.5kW to 16.5kW (MQL)
- 7 heat pump models from 5.0kW to 18.8kW (MQH)
- Single phase units up to size 10
- Microprocessor controlled operation
- µLTC regulation [self-adapting set temperature point, fan (ventilation speed control)]
- Reduced water volume (3.5 litres/kW)
- Ready to install unit
- 3 pump speeds.
- Average COP: 4.1
- Average EER: 3.1
- Low noise levels
- Numerous accessories (start-up current draw regulator, low temperature operation kit, buffer tank)

MQLH 4-8

MQLH 10-17

R407C

CE

ISO 9001

TECHNICAL DATA

MQL/MQH	4	6	8M	8T	10M	10T	12	15	17
Cooling capacity (kW) (1)	4.5	5.9	8.1	8.1	10.5	10.5	12.1	14.9	16.5
Heating capacity (kW) (2)	4.6	6.2	8.9	8.8	10.3	10.3	12.8	17.0	18.4
Refrigerant	R407C								
Power supply (V-Ph-Hz)	230-1-50	230-1-50	230-1-50	400-3+N-50	230-1-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
Compressor type	Rotative		Scroll						
Number of compressors	1								
Dimensions (mm) L	1182	1182	1182	1182	1182	1182	1182	1182	1182
W	400	400	400	400	400	400	400	400	400
H	905	905	905	905	1309	1309	1309	1309	1309
Net weight (kg)	97	104	110	110	153	153	158	160	160

(1) Data based on leaving chilled water temperature of 7°C and ambient air temperature of 35°C
(2) Data based on leaving hot water temperature of 45°C and ambient air temperature of 7°C

AQL 20-35

AQL 40-80

AQL 90-130

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air cooled water chillers - heat pumps

AQL/AQH 20 to 130

- 14 cooling models from 21kW to 131kW (AQL)
- 14 heat pumps models from 23kW to 141kW (AQH)
- Refrigerant R410A (AQL/AQH 20 to 35) R407C (AQL/AQH 40 to 130)
- Power supply (V-Ph-Hz): 400-3-50
- Compatible with water chilled airwell terminal units and heating-cooling floor
- 2 tandem scroll compressors in standard version
- Plug and play design, unit ready to operate
- Self-adapting regulation with ILTC microprocessor
- Power savings
- Low operating sound levels
- Brazed plate heat exchanger
- High-performance axial fan with external rotor
- Easy access to components provided by removable panels
- Standard hydro kit
- EUROVENT certified (AQL/AQH 20 to 35)

R410A

R407C

CE

ISO 9001

TECHNICAL DATA

AQL/AQH	20	25	30	35	40	50	60	70	80	90	100	110	120	130
Cooling capacity (kW) (1)	21.5/21.5	26/26	29.9/29.9	34.2/34.2	42/39.5	46.5/47.9	56.9/55.9	67.3/67.0	75.4/75.0	86.4/86.4	98/98	112/112	122.2/122.2	131/131
Heating capacity (kW) (2)	-/23.1	-/28	-/32.9	-/37.4	-/45	-/56	-/65	-/78	-/84.9	-/95.4	-/106.6	-/125.6	-/135.8	-/141.0
Dimensions (mm) L	1477	1477	1477	1477	1737	1737	2168	2168	2168	2523	2523	2865	2865	2865
W	516	516	516	516	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201
H	1607	1607	1607	1607	1634	1634	1634	1634	1634	1634	1634	1634	1634	1634
Net weight (kg)	279/292	297/310	304/318	318/333	480/490	530/565	550/570	580/600	600/620	1000	1050	1100	1100	1200

(1) Data based on leaving chilled water temperature of 7°C and ambient air temperature of 35°C
(2) Data based on leaving hot water temperature of 45°C and ambient air temperature of 7°C
* For models 20-35 pump is standard, for models 40-130 the weight does not include hydro kit

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air cooled water chillers - heat pumps

AQCL 25 to 130 / AQCH 25 to 80

- 11 models from 25kW to 125kW (AQCL)
- 8 models from 25kW to 76kW (AQCH)
- Cooling only/reverse cycle version
- Refrigerant R407C
- Power supply (V-Ph-Hz): 400-3-50
- 2 scroll compressors
- ILTC microprocessor based control
- Centrifugal condenser fans with external static pressure
- Integrated hydraulic module supplied as an option
- Several accessories and options

AQCL
AQCH

R407C
CE
ISO 9001

TECHNICAL DATA

AQCL/AQCH	25	30	35	40	50	60	70	80	100*	120*	130*
Cooling capacity (kW) (1)	24.9/24.9	28.8/28.8	33.7/33.7	39.6/39.6	46.2/46.2	56.3/56.3	67.5/67.5	76.5/76.5	99.1/-	113.7/-	124.8/-
Heating capacity (kW) (2)	-/27.6	-/32.2	-/36.3	-/43.9	-/55.4	-/64.2	-/76.2	-/84.0	-	-	-
Water pump	Single speed centrifugal pump										
Dimensions (mm) L	1750	1750	1750	2206	2206	2206	2464	2464	2464	2464	2464
W	890	890	890	890	890	890	1100	1100	1100	1100	1100
H	1505	1505	1505	1773	1773	1773	2313	2313	2313	2313	2313
Weight without pump (kg)	377/385	395/410	405/425	565/570	620/640	650/660	855/865	910/920	988/-	1058/-	1108/-
Weight with pump (kg)	387/395	405/420	415/435	575/580	630/650	660/670	865/875	920/930	1010/-	1080/-	1130/-

(1) Values are based on chilled water inlet/outlet temperature of 12/7°C and outdoor temperature of 35°C
(2) Values are based on hot water inlet/outlet temperature of 40/45°C and outdoor temperature of 7°C
*Only for the AQCL series

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air cooled water chillers - heat pumps

VLS/VLH/VLR 524 to 1204

- 8 sizes covering nominal cooling capacities range from 137 to 308kW and nominal heating capacity range from 150 to 336kW
- Cooling only (VLS) / reverse cycle model (VLH)
- 4 versions: STD(standard), HSE (high seasonal efficiency), HT (high temperature) and SIF (special inverter fan) *(For more technical specifications refer to the CD)*
- 3 acoustic options: BLN(base low noise), LN (low noise) and ELN (extra low noise) *(For more technical specifications refer to the CD)*
- Power supply (V-Ph-Hz): 400-3-50
- Optional desuperheater or total heat recovery version (VLR) *(For more technical specifications refer to the CD)*
- Double refrigerant circuits, 2 compressors per circuit
- 4 scroll compressors
- Refrigerant R410A
- Integrated hydraulic module without water tank or external hydraulic module with water tank supplied as optional
- Several options available
- EUROVENT certified

VLS

TECHNICAL DATA

VLS/VLH (STD/HSE/SIF-BLN)	524	604	704	804	904	1004	1104	1204
Cooling capacity (kW) (1)	136.6/130.0	154.3/145.9	176.9/169.2	198.9/191.6	228.9/221.2	250.9/237.8	279.6/262.1	307.7/286.2
Heating capacity (kW) (2)	-/149.6	-/169.0	-/199.2	-/234.9	-/254.1	-/272.5	-/300.8	-/335.8
Dimensions (mm) L	3300	3300	4300	4300	4300	4300	4300	4300
W	1100	1100	1100	1100	1100	1100	1100	1100
H	2300	2300	2300	2300	2300	2300	2300	2300
Net weight (kg)	1188/1248	1413/1473	1603/1663	1746/1806	1880/1955	2010/2100	2100/2190	2110/2200

R410A
CE
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(1) Data based on 7°C leaving chilled water temperature and 35°C ambient air temperature
(2) Data based on 45°C leaving hot water temperature and 7°C ambient air temperature

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air cooled water chillers - heat pumps

SLS 1402 to 8404 / SLH 1202 to 3804

- Nominal cooling capacities from 293 to 1686kW (SLS) and 260 to 792kW (SLH)
- 3 ranges: Standard (STD), High Efficiency (HE), High Efficiency and High Temperature (HET) *(For more technical specifications refer to the CD)*
- 3 versions available: BLN (reduced low noise sound version), LN (low noise version) and ELN (extra low noise version) *(For more technical specifications refer to the CD)*
- Refrigerant R134a (SLS) / R407C (SLH)
- Power supply (V-Ph-Hz): 400-3-50
- Screw type compressors: 2 (SLS 1402 to 4802) - 4 (SLS 5004 to 8404)
- Twin screw type compressors: 2 (SLH 1202 to 2602) - 4 (SLH 2804 to 3804)
- 2 or 4 independent refrigerant circuits according to the models
- Microprocessor based electronic control
- The optional total heat recovery is available on models SLS 1402 to 4802
- Integrated hydraulic module without water tank or external hydraulic module with water tank, as optional
- Several accessories and options
- EUROVENT certified (SLS 1402 to 8404)

SLS

R134a

R407C

CE

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air cooled water chillers - heat pumps

TECHNICAL DATA

SLS STD (BLN)		1402	1602	1802	1902	2002	2202	2502	2702	3002	3202	3402	3602	4202
Cooling capacity (kW) [1]		293.0	362.2	365.6	410.6	455.5	480.5	513.6	546.8	620.3	660.0	718.6	758.8	823.3
Dimensions (mm)	L	4000	4000	4000	4000	4000	4000	4000	4000	6000	6000	6000	6000	6000
	W	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
	H	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550
Net weight (kg)		4020	4040	4290	4650	5210	5210	5310	5330	6960	7600	7760	7930	8210

SLS STD (BLN)		4602	4802	5004	5404	5704	6004	6404	6804	7204	8404
Cooling capacity (kW) [1]		908.8	962.4	1027.2	1093.6	1167.1	1240.6	1320.0	1437.2	1517.6	1646.6
Dimensions (mm)	L	8000	8000	8000	8000	10000	12000	12000	12000	12000	12000
	W	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
	H	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550
Net weight (kg)		10820	10850	10620	10660	12290	13910	15190	15520	15850	16420

[1] Data based on leaving chilled water temperature of 7°C and ambient air temperature of 35°C

TECHNICAL DATA

SLH (BLN)		1202	1402	1602	1802	1902	2002	2202	2402	2602	2804	3204	3604	3804
Cooling capacity (kW) [1]		260.8	292.5	326.7	354.4	401.0	420.7	456.0	474.9	528.3	585.0	653.4	708.8	775.1
Heating capacity (kW) [2]		287.5	321.1	359.0	389.3	441.5	463.8	500.3	522.1	581.3	642.3	718.0	778.7	853.1
Dimensions (mm)	L	4030	4030	4030	4030	4030	4030	6030	6030	6030	8400	8400	8400	8400
	W	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
	H	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550	2550
Net weight (kg)		3540	3960	4000	4075	4510	4880	5600	5960	6230	7920	8000	8150	8955

[1] Data based on leaving chilled water temperature of 7°C and ambient air temperature of 35°C
[2] Data based on leaving hot water temperature of 45°C and ambient air temperature of 7°C

water cooled
water chillers

SWS/SWR 1002 to 4402
SWS/SWR 1602 to 4802

- Nominal cooling capacities from 291 to 1148kW with R407C (SWS/SWR 1002 to 4402) and nominal cooling capacities from 272 to 1118kW with R134a (SWS/SWR 1602 to 4802)
- 2 ranges: standard (SWS) and condenserless (SWR)
- 3 versions available: STD (standard), LN (low noise) and ELN (extra low noise)
- Power supply (V-Ph-Hz): 400-3-50
- Twin-screw type compressors
- Several options and accessories
- EUROVENT certified (SWS/SWR 1602 to 4802)

SWS

R407C

R134a

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TECHNICAL DATA

SWS/SWR (STD)		1002	1202	1402	1602	1902	2202	2602	3002	3402	3802	4202	4402
Cooling capacity (kW) [1]		290.5	312.6	346.9	393.8	489.6	599.6	701.1	789.8	889.6	1028.4	1078.5	1147.9
Dimensions (mm)	L	3795	3795	3795	3795	3795	4210	4210	4210	4210	4210	4210	4210
	W	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160
	H	1910	1910	1910	1910	1910	2050	2050	2050	2050	2050	2050	2050
Net weight (kg)		1645/1370	1659/1380	2041/1755	2067/1765	2554/2065	3005/2453	3259/2663	3326/2712	3460/2825	4330/3495	4380/3535	4254/3395

TECHNICAL DATA

SWS/SWR (STD)		1602	1902	2202	2212	2352	2502	2652	2802	3012	3202
Cooling capacity (kW) [1]		271.8	362.4	440.0	529.3	564.7	600.0	639.2	678.4	716.0	784.4
Dimensions (mm)	L	1160	1160	1650	1650	1650	1650	1650	1650	1650	1650
	W	1910	1910	2050	2050	2050	2050	2050	2050	2050	2050
	H	3795	3795	4210	4210	4210	4210	4210	4210	4210	4670
Net weight (kg)		2067/1765	2554/2065	3005/2553	3377/2895	3470/2895	3498/2995	3592/3085	3605/3095	4029/3505	4952/4421

SWS/SWR (STD)		3412	3602	4212	4602	4802
Cooling capacity (kW) [1]		841.7	898.9	962.1	1040.2	1118.2
Dimensions (mm)	L	1650	1650	1650	1650	1650
	W	2050	2050	2050	2050	2050
	H	4670	4670	4670	4670	4670
Net weight (kg)		4970/4431	4986/4441	5112/4561	5165/4581	5342/4753

[1] Data based on: evaporator leaving water temperature of 7°C and condensing temperature of 45°C

water cooled
water chillers

RWC/RWR 170 to 360

- 6 models available
- Nominal cooling capacity range from 161kW to 312kW
- 2 versions: standard and condenserless (RWR)
- Scroll compressor
- HFC 407C refrigerant
- Power supply (V-Ph-Hz): 400-3-50
- Evaporator and condenser consist of shell & tube type heat exchangers
- Two refrigerant circuits
- New electronic control “Chiller Control”
- Several accessories and options


RWC 170-280

TECHNICAL DATA

RWC/RWR		170	200	240	280	320	360
Cooling capacity (kW) [1]		160.8	186.5	210.6	263.6	283.7	312.3
Refrigerant		R407C					
Compressor type		Scroll					
Number of compressors		4					
Dimensions (mm)	L	2200	2200	2200	2200	2200	2200
	W	800	800	800	800	800	800
	H	1820	1820	1820	1820	1820	1820
Net weight (kg)		1217/1080	1262/1122	1398/1216	1514/1313	1540/1327	1554/1341

R407C

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[1] At conditions: evaporator water temperature of 12/7°C and condenser water temperature of 30/35°C

water cooled
water chillers

CWP-CO/CWP-RC/CWP-HP 02 to 35

- Nominal cooling capacity from 8 to 126kW (CWP-CO)
- Nominal cooling capacity from 8 to 136kW and nominal heating capacity from 9 to 164kW (CWP-HP)
- 13 models available
- 3 versions: cooling only (CWP-CO), reverse cycle heat pump (CWP-HP) and condenserless (CWP-RC)
- HFC 407C refrigerant
- Power supply (V-Ph-Hz): 400-3-50
- Scroll compressors: 1 (CWP 02 to 21) - 2 (CWP 25 to 35)
- Evaporator and condenser consist of stainless steel brazed plate type heat exchanger
- Electronic control
- Several accessories and options

CWP

TECHNICAL DATA

CWP CO/RC/HP	02	03	04	05	06	07	09	15
Cooling capacity (kW) (1)	7.6/7.0/6.5	9.2/8.5/7.9	13.3/12.4/11.5	16.3/15.1/14.2	19.7/18.3/17.1	28.0/26.1/24.4	33.7/31.4/29.4	40.7/38.2/35.9
Heating capacity (kW) (2)	-/-/9.0	-/-/10.7	-/-/15.7	-/-/19.0	-/-/23.3	-/-/33.2	-/-/40.1	-/-/49.1
Dimensions (mm) L	800	800	800	800	900	900	900	1100
D*	600	600	600	600	700	700	700	850
H*	910	910	910	910	910	910	910	1100
Net weight (kg)	115/110/127	119/114/130	125/119/137	138/131/151	185/179/204	197/188/216	201/193/222	270/259/298

CWP CO/RC/HP	18	21	25	30	35
Cooling capacity (kW) (1)	55.8	67.6	87.7	111.9	136.2
Heating capacity (kW) (2)	-/-/66.7	-/-/76.1	-/-/106.3	-/-/133.7	-/-/164.1
Dimensions (mm) L	1100	1100	1700	1700	1700
W	1100	1100	1200	1200	1200
H	850	850	984	984	984
Net weight (kg)	290/279/319	300/290/331	500/471/530	530/497/560	560/520/590

R407C

CE

ISO 9001

(1) Data based on chilled water temperatures of 12/7°C and condenser water temperatures of 30/35°C
(2) Data based on chilled water temperatures of 12/7°C and condenser water temperatures of 40/45°C
* With support feet

chilled water
terminal products

AQU@FAN II AWC/AWN/AHC/AHN FAN CONVECTORS

- 8 models from 2kW to 13.9kW (2 pipes, 2 pipes/2wires)
- 4 models from 1.97kW to 14kW (4 pipes)
- On 2 pipe system, fan coil units are factory mounted with a 2 row main coil or optional 3 row coil supplying higher capacity
- On 4 pipe system, fan coil units can be factory mounted with a 2 or 3 row main coil plus 1 row auxiliary heating coil
- Power supply: 230V-50Hz ALTERNATIF
- 4 versions
- Ease of installation
- Streamlined design and elaborate finish enabling harmonious integration
- Air flow rate between 150 and 1500m³/h
- Series of 2 pipes, 2 pipes/2 wires and 4 pipes
- 4 versions, lightened, on chassis, flush-mountable
- 5-speed motor
- Very low operating sound levels
- Aquanet electronic regulation as an accessory
- EUROVENT certified


AHC


AHN


AWC


AWN

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chilled water
terminal products

2-ROW MAIN COIL (2 PIPE SYSTEM)

MODELS	2020	3020	4020	5020	6020	7020	8020	9020
Cooling capacity (HS/MS/LS) (kW)	1.731/1.35/0.97	2.1/1.864/1.365	3.01/2.249/1.91	4.36/2.919/2.21	4.91/3.801/2.99	5.871/4.55/3.28	7.858/5.876/4.2	9.310/8.22/6.050
Heating capacity (HS/MS/LS) (kW)	2.378/1.943/1.217	2.996/2.394/1.712	3.906/3.099/2.542	5.346/3.844/3.038	6.407/4.721/3.630	7.678/6.057/4.450	9.866/7.641/5.139	12.161/10.328/7.364
Airflow (m^3/h) (HS/MS/LS)	307/216/141	394/281/176	552/373/286	713/456/323	888/629/454	1113/774/528	1333/905/644	1682/1282/756

3-ROW MAIN COIL (2 PIPE SYSTEM)

MODELS	2030	3030	4030	5030	6030	7030	8030	9030
Cooling capacity (HS/MS/LS) (kW)	1.871/1.465/1.035	2.441/2.134/1.524	3.463/2/62/2.19	5.01/3.33/2.495	5.73/4.39/3.395	7.47/5.61/3.92	9.038/6.649/4.749	10.741/9.011/6.415
Heating capacity (HS/MS/LS) (kW)	2.527/2.021/1.244	3.396/2.613/1.743	4.57/3.499/2.687	6.131/4.205/3.209	7.36/5.25/3.992	9.180/6.896/4.94	11.317/8.355/5.985	13.977/11.541/7.527
Airflow (m^3/h) (HS/MS/LS)	292/205/122	374/267/167	524/354/272	677/434/307	843/598/431	1058/735/502	1266/859/612	1598/1218/719

DIMENSIONS

MODELS	20	30	40	50	60	70	80	90
*AWC (mm) WxDxH	768x231x478	953x231x478	1138x231x478	1323x231x478	1508x231x478	1321x231x578	1508x231x578	1693x231x578
*AWN (mm) WxDxH	655x220x430	840x220x430	1025x220x430	1210x220x430	1395x220x430	1210x220x530	1395x220x530	1580x220x530
*AHC (mm) WxDxH	768x231x478	953x231x478	1138x231x478	1323x231x478	1508x231x478	1321x231x578	1508x231x578	1693x231x578
*AHN (mm) WxDxH	712x220x430	897x220x430	1082x220x430	1267x220x430	1452x220x430	1267x220x530	1452x220x530	1637x220x530

* AWC: Aqu@Fan fan coil vertical wall unit with cabinet
AWN: Aqu@Fan fan coil vertical wall unit without cabinet
AHC: Aqu@Fan fan coil horizontal ceiling unit with cabinet
AHN: Aqu@Fan fan coil horizontal ceiling unit without cabinet

WSW

inventor
Your-conditions

chilled water
terminal products

CHILLED WATER WALL MOUNTED UNITS WSW 7, 9, 18

- Compact slim line (depth: 160mm, height: 270mm)
- Designed for wall mounting
- Quiet operation
- 3 sizes available
- 3 systems: 2-pipe with infrared remote control, but without regulation valve, 2-pipe with thermostat and with or without regulation valve, 2-pipe/2-wire with thermostat and regulation valve
- Nominal cooling capacities from 1.8kW to 3.7kW (high speed, air: 27°C/19°C, chilled water: 7/12°C)
- Power Supply(V-Ph-Hz): 230-1-50
- EUROVENT certified

WKW 9, 12, 18

CHILLED WATER CASSETTES WKW 9, 12, 18, 30 & 45

- Available with 2-pipe (all sizes), reversible 2-pipe (sizes 9-18), 2-pipe/2-wires (all sizes), reversible 2-pipe with extra electric heating (sizes 9-18) and 4-pipe systems (except size 30)
- Low noise level (sizes 9-18)
- Power Supply (V-Ph-Hz): 230-1-50 (all) / 400-3-50 (30, 45 only)
- EUROVENT certified performance
- Nominal cooling capacities from 2.2 to 5kW (2-pipe system, high speed, air: 27°C/19°C) (sizes 9-18), and 6.4 to 10.2kW for sizes 30, 45 (2-pipe system, high speed, air: 27°C/19°C, chilled water: 7/12°C)
- Dimensions suitable for standard ceiling tiles of 600x600mm
- Electromechanical, electronic or electronic communicating control can be supplied as optional
- Several options available

WKW 30, 45

1-WAY CHILLED WATER CASSETTES KCO LN 60, 90 & 120

- Low noise version
- Equipped with PLAY diffusers allowing a uniform airflow with a COANDA effect
- 3 sizes available with 2-pipe, reversible 2-pipe, 2-pipe/2-wire, reversible 2-pipe with extra electric heating, 4-pipe systems
- Nominal cooling capacities from 1.7 to 4.3kW (2-pipe system, high speed, air: 27°C/19°C, water: 7/12°C)
- Power Supply(V-Ph-Hz): 230-1-50
- Dimensions suitable for standard ceiling tiles of 600x600mm, 600x900mm and 600x1200mm
- Electromechanical, electronic or electronic communicating control can be supplied as optional
- Several options available

KCO

CE

ISO 9001

inventor
Your-conditions

chilled water terminal products


VH2N

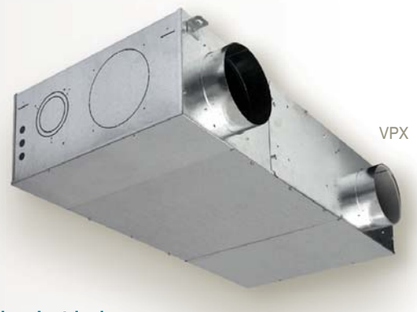
LOW & HIGH STATIC PRESSURE FAN COIL UNITS VH2N

- 9 sizes available with air volume from 180 to 4380 m³/h and external static pressure up to 220Pa for larger units
- Two versions: LS (low static) and HS (high static)
- 3 systems: 2-tube, 2-tube/2-wire or 4-tube system
- Multi speed motor: 3 to 6 speeds depending on the sizes
- Nominal cooling capacities from 0.4 to 27.7kW (air: 27°C/19°C, chilled water: 7/12°C)
- Power Supply(V-Ph-Hz): 230-1-50
- Options: electromechanical or electronic control
- EUROVENT certified


VHF

STATIC PRESSURE FAN COIL UNITS VHF

- 4 sizes available with air volume from 180 to 2250 m³/h and external static pressure up to 50Pa
- 5 systems: 2-pipe, reversible 2-pipe, 2-pipe/2-wire, 2-pipe with extra electric heating and 4-pipe systems
- 3 configurations: without plenum (SP), with discharge plenum (APS) and with suction and discharge plenums (APSA)
- 5 or 6 speed motor according to the model
- Power Supply(V-Ph-Hz): 230-1-50
- Options: G2 or G3 filter, fresh air intake, regulation valves, electromechanical control, electronic control or electronic communicating control
- Nominal cooling capacities from 0.5 to 9.5kW
- EUROVENT certified


VPX

DUCTABLE FAN COIL UNITS VPX

- Perfect modularity with 4 possible configurations:
  -J: straight return and side discharge,
  -U: return and discharge at same side,
  -L: side return and straight discharge,
  -I: straight return and discharge
- Several versions: 2-pipe version (4 or 5 row coil), 2-pipe/2-wire version, 4-pipe version
- 7 speed motor for air flows from 140 to 783 m³/h (under external static pressure of 40 Pa)
- Power Supply(V-Ph-Hz): 230-1-50 / 400-3-50 (if are fitted electric heating resistances over 3000W)
- Ease of maintenance on internal components (fan-motor assembly, coils, electrical connections), by removing the access panel without removing the air ducts
- Full control with 2 or 4 way valves complete with electromechanic or electronic control systems or with the new Wesper Aqu@net control system
- Nominal cooling capacities from 1 to 4.8kW
- EUROVENT certified

CE

ISO 9001


ROOFT@IR-40

inventor
Your-conditions

rooftop

ROOFT@IR RTL/RTH 40 to 110

- Cooling only and heat pump versions
- 7 sizes covering a nominal cooling capacity range from 41 to 108kW and a nominal heating capacity range from 43 to 108kW
- Cabinet coated with RAL 9001 epoxy paint
- Glass wool insulation, with thickness of 25mm and density of 62kg/m³
- Power Supply(V-Ph-Hz): 400-3-50
- 2 scroll compressors
- R410A refrigerant
- External coils with fins coated with blue coating easing the flowing of water
- Removable condensate drain pan
- IATC electronic control with several options: day or week timer, remote user interface, master/slaves configuration, communication via Modbus interface
- Choice of 8 arrangements with down, side, front and top supply and return air: 4 for supply and 4 for return
- Several accessories and options: economizer, manual outdoor air kit, exhaust air kit, exhaust air blower, smoke detector, G4 filters, high external static pressure indoor fan, electric heater, 1-row hot water coil, double wall casing panels, adjustable or non adjustable and factory assembled or non factory assembled roof mounting curbs, rubber pads
- EUROVENT certified

TECHNICAL DATA

RTL/RTH	40	50	60	70	80	100	110
Cooling capacity (kW) (1)	41.5/41.0	50.9/48.6	59.8/59	67.7/66	84.9/83.4	96.6/94.8	108.4/106.1
Heating capacity (kW) (2)	-/42.9	-/50.2	-/58.2	-/66.5	-/84.0	-/96.0	-/108.0
Dimensions (mm) L	2450	2450	3400	3400	3400	3400	3400
W (without fresh hood)	1850	1850	2227	2227	2227	2227	2227
H	1350	1350	1732	1732	1732	1732	1732
Weight (kg)	580	640	920	950	995	1085	1125

(1) Cooling capacity with Eurovent conditions: 35°C dry bulb outdoor, 27°C dry bulb / 19°C wet bulb entering indoor
(2) Heating capacity with Eurovent conditions: 7°C dry bulb / 6°C wet bulb outdoor, 20°C entering indoor

CE

ISO 9001

inventor
Your-conditions

rooftop

ROOFT TECH RTCL/RTCH 100 to 160

- Cooling only and heat pump versions
- 4 sizes covering a nominal cooling capacity range from 101 to 158kW and a nominal heating capacity range from 97 to 155kW
- Cabinet with aluminium double skin panels
- Hinged service doors giving full access to the unit (electrical board, compressors, indoor coil, indoor fan)
- Glass wool insulation, with thickness of 50mm and density of 32kg/m³
- Power Supply(V-Ph-Hz): 400-3-50
- 4 tandem scroll compressors
- R410A refrigerant
- Outdoor coils with fins coated with blue coating easing the flowing of water
- Removable condensate drain pan
- IATC electronic control with several options: day or week timer, remote user interface, master slave configuration, communication via MODBUS interface
- 3 supply air arrangements: down, side and top
- 4 return air arrangements: down, front, side and top
- Several accessories and options: G4 flat filters, F7 bag filters, filter clogging pressure switch, 2-dumper economizer, exhaust blower for 2-dumper economizer, manual outdoor air kit, 3-dumper economizer, return fan for 3-dumper economizer, heat recovery by glycol water loop coils, high external static pressure indoor fan, electric heat, hot water heat, gas heat, roof mounting curbs, rubber pads
- EUROVENT certified

CE

ISO 9001

TECHNICAL DATA

RTCL/RTCH		100	120	140	160
Cooling capacity (kW) (1)		101.0/98.5	115.2/112.4	135.4/132.1	158.1/154.2
Heating capacity (kW) (2)		-/97.4	-/114.6	-/134.7	-/155.3
Dimensions (mm)	L	4743	4743	4743	4743
	W (without fresh hood)	2205	2205	2205	2205
	H	2229	2229	2229	2229
Weight (kg)		1815	1815	1950	1950

(1) Cooling capacity with Eurovent conditions: 35°C dry bulb outdoor, 27°C dry bulb / 19°C wet bulb entering indoor
(2) Heating capacity with Eurovent conditions: 7°C dry bulb / 6°C wet bulb outdoor, 20°C entering indoor

inventor
Your-conditions

water source heat pumps

HRW 007-012

HRW 007 to 120

HRW 019-072

- 3 sizes covering a nominal cooling capacity range from 1.9 to 3.0kW (HRW 007 to 012)
- 8 sizes covering a nominal cooling capacity range from 5.3 to 17.2Kw (HRW 019 to 072)
- 2 sizes covering a nominal cooling capacity range from 21.7 to 29.9kW (HRW 096 to 120)
- Horizontal model
- 1 rotary compressor (HRW 007-024) or 1 scroll compressor (HRW 030-120)
- Refrigerant R407C
- Power Supply(V-Ph-Hz): 230-1-50 (HRW 007-024) / 400-3-50 (HRW 30-120)
- Fan-motor assembly with 3 ventilation speeds (HRW 007 to 072)
- Fan-motor assembly with belt drive (HRW 096 & 120)
- Plate heat exchanger on the water/refrigerant side for improved efficiency
- Condensate pan coated with anti-corrosion paint and equipped with safety device to protect against accidental condensate overflow
- Bi-flow expansion valve for a wide operating range
- Stand-alone electronic control which can be configured to 4 operating modes

HRW 96, 120

CE

ISO 9001

TECHNICAL DATA

HRW		007	009	012	019	024	030	036	042	048	060	072	096	120
Cooling capacity (kW) (1)		1.941	2.338	2.974	5.278	5.923	8.691	10.138	11.366	12.965	14.344	17.174	21.743	29.951
Heating capacity (kW) (2)		2.656	2.784	3.768	5.826	7.370	9.759	11.036	14.422	14.904	16.147	21.500	26.637	38.109
Dimensions (mm)	L	900	900	900	900	900	1050	1050	1250	1250	1250	1250	1680	1680
	W	530	530	530	600	600	660	660	705	705	705	705	950	950
	H	239	239	239	439	439	460	460	513	513	513	513	770	770
Net weight (kg)		59	59	59	87	92	109	121	143	150	154	159*	274*	284*

(1) Nominal cooling capacities based on: entering air temperature of 27°C dry bulb, 19°C wet bulb with entering water temperature of 30°C
(2) Nominal heating capacities based on: entering air temperature of 20°C dry bulb, 15°C wet bulb with entering water temperature of 20°C
* Packed weight

air handling units

DIRECT DRIVE COMPACT AIR HANDLING UNITS WESPAK 1.39, 2.69 & 3.99

- 3 sizes available with air volume ranging from 500 to 3600m³/h and external static pressure up to 250Pa
- Nominal cooling capacities from 5.6 to 23kW
- Casing (with optional double skin panel) is thermally insulated with 10mm thick closed cell foam
- 3 versions: 2 tube, 2 tube/2wire, 4 tube system
- Power supply (V-Ph-Hz): 230-1-50
- Direct drive type centrifugal fan with one or two impellers
- 3-speed single phase motor
- Horizontal or vertical mounted type with more than sixty different mix-match sections
- Several options available

BELT DRIVE COMPACT AIR HANDLING UNITS WESPAK 4.5, 5.05 & 6.05

- Belt drive type ensuring external static pressure up to 400Pa and air volume ranging from 4000m³/h to 9000m³/h
- Power Supply (V-Ph-Hz): 400-3-50
- Single or double skin panels
- 10mm synthetic foam or 25mm fiber glass insulation
- Complete treatment functions with: air mixing, filtration, heating, cooling, dehumidification, ventilation and sound attenuator

CE

ISO 9001

air handling units

PREMI@IR PR 20 to 360

- Self supporting type air handlers with a completely smooth tunnel and a total thermal bridge free structure
- Double skin panels, 50mm with several finishings (prepainted, stainless steel or aluminium) and several types of thermal insulation (fiber glass, rock wool or polyurethane foam)
- 10 sizes available with air volume from 1500 to 30000 m³/h (in cooling application)
- EUROVENT certified
- Classification 2A/B/F2/T2/TB2 according to EN 1886
- Multitude of treatment and heat recovery functions
- Several options available
- Selection tool by WinClim, EUROVENT certified software

@IRTWIN TR 20 to 1000

- Aluminium framework type air handlers with a completely smooth tunnel
- Double skin panels, 25 and 50mm with several finishing (prepainted, stainless steel or aluminium) and several types of thermal insulation (fiber glass, rock wool or polyurethane foam)
- 15 sizes available with air volume from 1500 to 110000m³/h (in cooling application)
- EUROVENT certified
- Classification D1/L2/F9/T4/TB3 according to EN 1886
- Multitude of treatments and heat recovery functions
- Several options available
- Selection tool by WinClim, EUROVENT certified software

CE

ISO 9001

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