



Water chillers

AQUACIAT 2

High energy efficiency with
R410A
 Compact and quiet
Scroll compressors
 Brazed plate heat exchangers
 Self adjusting electronic **control system**



Cooling capacity : 20 to 290 kW
 Heating capacity : 20 to 285 kW



Cooling or heating



Hydraulic pack



Heat recovery



USE

The **AQUACIAT 2 series LD-LDC-LDH** or **ILD-ILDC-ILDH** water chillers or heaters with air-cooled condensers are medium capacity units particularly adapted for heating and air conditioning applications in the fields of Offices, Healthcare, Industry, Administration, Commercial and Residential buildings.

These standard packaged units are designed for outdoor installation; no particular precautions have to be taken against adverse weather conditions.

An optional XTRAFAN version allows if necessary the possibility of mounting an air duct on the fan(s) discharge in the case of air recycling risk or for an acoustic treatment on site.

To operate in **COOLING** or **HEATING** mode, these units use outside air as the only external source; this permits the evacuation of heat in summer or the supply of thermal energy for heating in winter.

Connected to a heating or cooling floor, to fan coil units or to an air handling unit, the reversible Aquaciat 2 Series **ILD-ILDC-ILDH** permits easy heating and air conditioning of buildings.

Each unit is assembled, electrically wired (control and capacity), charged with refrigerant, and tested in factory.

The installation is very simple and the only operations to be carried out on site are the electrical wiring and water connections.

RANGE

AQUACIAT 2 series LD

Cooling only chillers without hydraulic equipment.

AQUACIAT 2 series LDC - LDH

Cooling only chillers with hydraulic equipment, water pump only, or pump and buffer tank.

AQUACIAT 2 series ILD

Reversible air/water cooled models without hydraulic equipment.

AQUACIAT 2 series ILDC - ILDH

Reversible air/water cooled models with hydraulic equipment (circulating water pump only or pump and buffer tank).



DESCRIPTION

The standard **AQUACIAT 2 series LD-LDC-LDH (cooling only)** or **series ILDC-ILDH (reversible)** are delivered with the following components:

- air-cooled condenser with propeller fan motor assembly,
 - chilled water evaporator (or hot water condenser on reversible models),
 - capacity control system on chilled or hot water,
 - starting automatic control, electrical compartment :
 - . Power supply : 3~50Hz 400V (+6%/- 10%) + earth
 - . Control circuit : 1~50Hz 230V
- (transformers are mounted on the unit in the standard version),
- cabinet for outdoor installation.



80 to 300

■ Conformity with the EC European directives

- Machines EC 98 / 37
- Electromagnetic EMC 2004/108/CE
- Under pressure equipment DESP EC 97 / 23 category 2
- Low voltage 2006/95/CE

■ Conformity to standards

- EN 60-204 , EN 378-2 (NFC15 - 100 France).

NOMENCLATURE

ILD	>	reversible version	H	>	hydraulic version with pump and buffer tank
LD	>	cooling only model	540	>	size
C	>	hydraulic version with pump	V	>	refrigerant R410A

STANDARD OR OPTIONAL EQUIPMENT

	LD		LDC-LDH		ILD		ILDC - ILDH	
	COOLING ONLY				HEAT PUMP			
3-400V 50hz main supply without neutral with transformer	Std		Std		Std		Std	
Coil protective grille	Std ➔ 300		Std ➔ 300		Std ➔ 300		Std ➔ 300	
Resilient mounts	Std		Std		Std		Std	
Main switch	Std		Std		Std		Std	
Water flow switch	Std		Std		Std		Std	
Additional potential free contacts board	O		O		O		O	
Remote control (Remote console)	O		O		O		O	
Phases control system (direction, absence, under & over voltage)	O		O		O		O	
Progressive soft start	O		O		O		O	
Anti-frost protection	O		O		O		O	
All year round operation (min. outdoor temp.: -15°C)	Std		Std		Std		Std	
Condenser fan speed control (min. outdoor temp.: -20°C)	O		O		O		O	
Partial heat recovery -Desuperheater	O		O		O		O	
BLYGOLD coil protective coating	O		O		O		O	
Polyurethane fin protective coating	O		O		O		O	
Water filter - 800 µm	O		Std		O		Std	
Water adjustment kit (manifold, control valve, stop valve)	O		O		O		O	
Flexible water connections	O		O		O		O	
Twin pump	-		O / 180 ➔ 1100		-		O / 180 ➔ 1100	
Additional technical compartment (without equipment)	O / 180 ➔ 300		O / 180 ➔ 300		O / 180 ➔ 300		O / 180 ➔ 300	
Electric auxiliary heater kit 15 kW	-		-		O / 80 ➔ 150		O / 80 ➔ 150	
Electric auxiliary heater module 15 - 30 - 45 kW	-		-		O / 180 ➔ 300		O / 180 ➔ 300	
MULTICONNECT several units management	O		O		O		O	
Auxiliary external heater management board (4 stages)	-		-		O		O	
XTRAFAN air fans system	O / ➔ 700		O / ➔ 700		O / ➔ 700		O / ➔ 700	
Low temperature glycol/water reinforced insulation (0 to -12°C)	O / 350 ➔		O / 350 ➔		O / 350 ➔		O / 350 ➔	
LONWORKS communication gateway	O		O		O		O	
Handling for container	350 ➔ 1100		350 ➔ 1100		350 ➔ 1100		350 ➔ 1100	
Optimised high pressure operation (all-season operation with energy optimisation)	O / 350 ➔ 1100		O / 350 ➔ 1100		-		-	
Electronic expansion valve	O / 350 ➔ 1100		O / 350 ➔ 1100		-		-	
Total heat recovery	O / 350 ➔ 1100		O / 350 ➔ 1100		-		-	

Std : Standard feature

O : Optional equipment

- : Not available

Note : Some technical specifications not appearing on the above list can however be quoted on request (consult us)



Water chillers

COOLING ONLY - TECHNICAL CHARACTERISTICS



LD - LDC - LDH		80V	90V	100V	120V	150V	180V	200V	240V	300V	
Cooling capacity ①	kW	19.7	22.4	26.3	29.9	38.9	46.7	53.1	61.0	76.8	
Power input	kW	6.9	8.1	9	10.6	13.7	14.8	18.1	20.5	27.7	
EER Efficiency ②		2.84	2.78	2.93	2.82	2.84	3.15	2.94	2.97	2.77	
Seasonal efficiency ESEER		3.34	3.25	3.51	3.26	3.28	4.51	4.33	4.02	3.97	
Lw / Lp ③ (High Perf. - HP)	dB(A)	75/43		79/47		80/48		81/49		86/54	
Lw / Lp ③ (Low Noise version - LN)	dB(A)	71/39		75/43		77/45		79/47		82/50	
Compressor		Hermetic SCROLL 2900 rpm									
Starting mode		Direct in series									
Quantity		1				2					
Capacity control	%	100-0				100-50-0					
Refrigerant oil type		Polyolester POE 3MAF (32cst)									
Oil volume	l	2.50	3.25	3.25	3.25	4.14	6.50	6.50	6.50	8.30	
Refrig. circuit number		1									
Refrigerant fluid (GWP)		R410A (1890)									
Refrigerant load	kg	5.3	5.5	7.2	7.3	7.8	13.2	13.5	14.2	14.2	
Electric supply	ph/Hz/V	3-50Hz 400V (+6%/-10%) + Earth									
Unit protection index		IP 44									
Control voltage	ph/Hz/V	1-50Hz 230V (+6%/-10%) - transformer mounted									
Evaporator		Braze plates type exchanger									
Water content	l	1.78	1.78	2.22	2.22	3.11	3.55	4.22	4.77	7.71	
Chilled water outlet min/max	°C	-12 / +15									
Minimum water flow	m³/h	2.9	2.9	3.6	3.6	5.1	5.8	6.9	7.8	10.4	
Maximum water flow	m³/h	6.7	7.4	9.0	10	13.1	15.4	17.6	20.4	24.5	
Water connections	Ø	Male G 1"1/4		Male G 1"1/2			Male G 2"				
Maximum pressure (water side)	bar	LD 10 bars / LDC-LDH 4 bars									
Air cooled condenser		Finned heat exchanger									
Fan Ø	mm	710			800						
No. x Motor rated power High Performance series - HP	nb x kW	1x0.5	1x0.5	1x0.9	1x0.9	1x0.9	1x0.9	1x0.9	1x1.7	1x1.7	
No. x Motor rated power Low Noise series - LN	nb x kW	1x0.35	1x0.35	1x0.46	1x0.46	1x0.46	1x0.46	1x0.46	1x1.2	1x1.2	
High Performance air flow - HP	m³/h	10800	10800	16700	16700	15500	16100	16100	24000	24000	
Low Noise air flow - LN	m³/h	8700	8700	10800	10800	9700	10800	10800	18000	18000	
Mini water content (ILD-ILDC)	l	114	130	155	173	229	131	149	173	209	
Water tank content H model	l	100		150			200				
Expansion vessel C & H model	l	6			12						
Standard pump	n°	44	44	44	44	45	40	40	40	41	
Height without mounts	mm	1170			1393			1743			
Standard series length	mm	1995			1995			1995			
C series length	mm	1995			1995			1995			
H series length	mm	1995			1995			2676			
Depth	mm	1055			1055			1055			
Std range weight without charge	kg	326	329	365	367	449	564	570	576	706	
C range weight without charge	kg	344	347	383	385	467	611	614	620	751	
H range weight without charge	kg	369	372	407	409	492	808	811	817	948	
Storage temperature	°C	+ 50°C									

① Capacities of HIGH PERFORMANCE series based on :
COOLING mode : +12°C/+7°C and condenser air inlet temperature +35°C

② EER in gross values

③ Total Sound power Lw, total sound pressure at 10 m from the unit, in free field, conformity with ISO 3744 norm

④ According to selection.



COOLING ONLY - TECHNICAL CHARACTERISTICS



LD - LDC - LDH		350V	400V	500V	540V	600V	700V	702V	800V	900V	1000V	1100V	
Cooling capacity ①	kW	92.5	102.6	123.9	135.9	151.1	173.3	189.3	209.9	250.9	270.6	291.5	
Power input	kW	30.9	36.1	46.2	47.5	55.8	64.4	60.3	69.7	81.5	89.6	100.2	
EER Efficiency ②		2.99	2.84	2.68	2.80	2.71	2.69	3.14	3.01	3.08	3.02	2.91	
Seasonal efficiency ESEER		4.16	3.85	3.36	3.90	3.91	3.70	4.24	4.12	4.11	4.08	3.98	
Lw / Lp ③ (High Perf. - HP)	dB(A)	89/57	90/58		90/58	91/59		89/57	90/58				
Lw / Lp ③ (Low Noise version - LN)	dB(A)	83/51			85/53			84/52	85/53	84/52		85/53	
Lw / Lp ③ (Xtra Low Noise version - XLN)	dB(A)	-	-	-	-	-	-	81/49	82/50	81/49	81/49	83/51	
Compressor		Polyester SCROLL 2900 rpm											
Starting mode		Direct in series											
Quantity		2	2	2	4	4	4	4	4	4	4	4	
Capacity control	%	100-57-43-0	100-63-37-0	100-50-0	100-78-72-55-50-45-28-22-0	100-75-50-25-0	100-78-71-57-50-43-28-21-0		100-81-69-62.5-50-37.5-31-19-0	100-83-66-55-33-16-0	100-80-70-60-50-40-30-20-0	100-77-73-54-50-45-27-23-0	
Refrigerant oil type		Polyester POE 3MAF (32cst)											
Oil volume	l	8.8	9.8	11.2	14.8	16.6	17.6	17.6	21.8	20.8	22.2	26.2	
Refrig. circuit number		1			2								
Refrigerant fluid (GWP)		R410A (1890)											
Refrigerant load	kg	18.5	18	11.8 +11.8	13.0 +13.5	13.2 +13.7	17.8 +17.8	18.0 +18.0	17.0 +17.0	21.0 +21.0	22.0 +22.0	23.0 +23.0	
Electric supply	ph/Hz/V	3-50Hz 400V (+6%/-10%) + Earth											
Unit protection index		IP 44											
Circuit control voltage	ph/Hz/V	1-50Hz 230V (+6%/-10%) - transformer mounted											
Evaporator		Brazen plates type exchanger											
Water content	l	8.68	9.88	10.66	12.48	15.42	15.42	15.8	15.8	18	20.4	20.4	
Chilled water outlet min. / max.	°C	-12 / +18											
Minimum water flow	m³/h	11.7	13.3	17.3	18.1	20.8	20.8	22.1	24.4	29.3	31.6	34	
Maximum water flow	m³/h	30.7	34.6	41.9	45.9	50.7	50.7	63.2	69.5	77	77	77	
Water connections	∅	Male G 2"1/2			Flange DN80			Flange DN100					
Maximum pressure (water side)	bar	LD 10 bars / LDC-LDH 4 bars											
Air cooled condenser		Finned heat exchanger											
Fan ∅	mm	800											
Number x Motor rated power High Performance series- HP	nb x kW	2x1.7	2x1.7	2x1.8	2x1.7	2x1.7	2x1.7	4x1.55	4x1.55	4x1.66	4x1.66	4x1.66	
Number x Motor rated power Low Noise series - LN	nb x kW	2x1.6	2x1.2	2x1.2	2x1.1	2x1.1	2x1.1	4x1.06	4x1.06	4x1.1	4x1.1	4x1.1	
High Performance air flow - HP	m³/h	44000	42000	41000	44000	44000	44000	81200		78000			
Low Noise air flow - LN - XLN	m³/h	32000	29000	30500	35000	35000	35000	60000		58400			
Mini water content (ILD-ILDC)	l	220	213	357	164	207	203	213	212	213	290	364	
Water tank content H model	l	250					500						
Expansion vessel C & H model	l	18					35						
Standard pump	n°	④											
Height without mounts	mm	2117			2117			2080 (+ 205 XLN)					
Standard series length	mm	2190			2740			3698					
C series length	mm	2190			2740			3698					
H series length	mm	2190			2740			3698					
Depth	mm	2129			2129			2200					
Std range weight without charge	kg	1046	1145	1183	1460	1596	1768	2135	2175	2215	2255	2310	
C range weight without charge	kg	1144	1242	1254	1654	1775	1947	2360	2400	2455	2495	2625	
H range weight without charge	kg	1207	1306	1318	1718	1838	2010	2510	2550	2605	2645	2745	
Storage temperature	°C	+ 50°C											

① Capacities of HIGH PERFORMANCE series based on :

COOLING mode : +12°C/+7°C and condenser air inlet temperature +35°C

② EER in gross values

③ Total Sound power Lw, total sound pressure at 10 m from the unit, in free field, conformity with ISO 3744 norm

④ According to selection.



Water chillers

REVERSIBLE UNIT - HEAT PUMP TECHNICAL CHARACTERISTICS



ILD - ILDC - ILDH		80V	90V	100V	120V	150V	180V	200V	240V	300V	
Cooling capacity ①	kW	20.2	22.9	27.4	30.5	40.5	47.1	53.5	61.9	75.6	
Power input	kW	6.9	8.0	9.1	10.6	13.0	15.2	18.3	20.7	27.6	
EER Efficiency ②		2.93	2.86	3.01	2.88	3.12	3.10	2.92	2.99	2.74	
Seasonal efficiency ESEER		3.31	3.22	3.42	3.25	3.50	4.22	4.20	3.89	3.84	
Lw / Lp ③ (High Perf. - HP)	dB(A)	75/43		79/47		80/48	81/49		86/54	89/57	
Lw / Lp ③ (Low Noise version - LN)	dB(A)	71/39		75/43		77/45	79/47	78/46	82/50	83/51	
Heating capacity ①	kW	20.7	23.2	28.1	31.6	41.4	48.4	54.9	63.7	81.4	
Power input	kW	7.0	7.9	9.6	10.7	13.6	15.4	17.9	20.9	26.3	
Performances COP ②		2.95	2.93	2.93	2.95	3.04	3.10	3.07	3.05	3.10	
Compressor		Hermetic SCROLL 2900 rpm									
Starting mode		Direct in series									
Quantity		1				2					
Capacity control	%	100-0				100-50-0					
Refrigerant oil type		Polyolester POE 3MAF (32cst)									
Oil volume	l	2.50	3.25	3.25	3.25	4.14	6.50	6.50	6.50	8.30	
Refrig. circuit number		1									
Refrigerant fluid (GWP)		R410A (1890)									
Refrigerant load	kg	6.5	6.1	8.2	9.8	11.3	17.2	17			
Electric supply	ph/Hz/V	3-50Hz 400V (+6%/-10%) + Earth									
Unit protection index		IP 44									
Circuit control voltage	ph/Hz/V	1-50Hz 230V (+6%/-10%) - transformer mounted									
Evaporator		Brazed plate type exchanger									
Water content	l	1.78	1.78	2.22	2.22	3.11	3.55	4.22	4.77	7.71	
Chilled water outlet min. / max.	°C	-10 / +15									
Hot water outlet min. / max.	°C	+30 / +50									
Minimum water flow	m³/h	2.9	2.9	3.6	3.6	5.1	5.8	6.9	7.8	10.4	
Maximum water flow	m³/h	6.7	7.4	9.0	10	13.1	15.4	17.6	20.4	24.5	
Water connections	∅	Male G 1"1/4		Male G 1"1/2			Male G 2"				
Maximum pressure (water side)	bar	ILD 10 bars / ILDC-ILDH 4 bars									
Air cooled condenser		Finned heat exchanger									
Fan ∅	mm	710			800						
Number x Motor rated power High Performance series - HP	nb x kW	1x0.5	1x0.5	1x0.9	1x0.9	1x0.9	1x0.9	1x0.9	1x1.7	1x1.7	
Number x Motor rated power Low Noise series - LN	nb x kW	1x0.35	1x0.35	1x0.46	1x0.46	1x0.46	1x0.46	1x0.46	1x1.2	1x1.2	
High Performance air flow - HP	m³/h	10800	10800	16700	16700	15500	16100	16100	24000	24000	
Low Noise air flow - LN	m³/h	8700	8700	10800	10800	9700	10800	10800	18000	18000	
Mini water content (ILD-ILDC)	l	114	130	155	173	229	131	149	173	209	
Water tank content model H	l	100		150			200				
Expansion vessel C & H model	l	6			12						
Standard pump	n°	44		44	44	45	40	40	40	41	
Height without mounts	mm	1170			1393			1743			
Standard series length	mm	1995			1995			1995			
C series length	mm	1995			1995			1995			
H series length	mm	1995			1995			2676			
Depth	mm	1055			1055			1055			
Std range weight without charge	kg	328	331	366	368	452	611	614	620	756	
C range weight without charge	kg	346	349	384	386	470	648	651	656	789	
H range weight without charge	kg	371	374	409	411	495	845	848	853	986	
Storage temperature	°C	+ 50°C									

① Capacities of HIGH PERFORMANCE series based on :
 a/ COOLING : +12°C/+7°C and air inlet temp. at condenser +35°C
 b/ HEATING: hot water outlet +45°C and outdoor air +7°C DB 86%RH

② EER and COP are gross values

③ Total sound power Lw, total sound pressure at 10 m from the unit, in free field, conformity with ISO 3744 norm



REVERSIBLE UNIT - HEAT PUMP TECHNICAL CHARACTERISTICS



ILD - ILDC - ILDH		350V	400V	500V	540V	600V	700V	702V	800V	900V	1000V	1100V	
Cooling capacity ①	kW	92.8	105.2	128.1	139.9	155.3	163.1	183,4	201,8	239,8	257,9	278,8	
Power input	kW	31.4	35.2	44.4	46.1	52.5	59.5	61,5	69,8	83,0	91,9	101,5	
EER Efficiency ②		2.96	2.98	2.88	3.03	2.96	2.74	2,98	2,89	2,89	2,81	2,75	
Seasonal efficiency ESEER		3.70	3.84	3.27	3.97	3.95	3.63	3,83	3,81	3,75	3,77	3,63	
Lw / Lp ③ (High Perf. - HP)	dB(A)	89/57	90/58			91/59			92/60				
Lw / Lp ③ (Low Noise version - LN)	dB(A)	83/51			85/53				87/55				
Lw / Lp ③ (Xtra Low Noise version - XLN)	dB(A)	-	-	-	-	-	-	81/49	82/50	81/49	81/49	83/51	
Heating capacity ①	kW	95.0	108.8	132.6	147.1	164.0	181.5	191,1	213,5	247,9	265,2	285,7	
Power input	kW	31.4	36.0	43.1	47.7	53.0	57.1	63,2	71,5	82,7	89,9	97,1	
Performances COP ②		3.03	3.02	3.07	3.08	3.09	3.12	3,02	2,99	3,00	2,95	2,94	
Compressor	Hermetic SCROLL 2900 rpm												
Starting mode	Direct in series												
Quantity		2	2	2	4	4	4	4	4	4	4	4	
Capacity control	%	100-57-43-0	100-63-37-0	100-50-0	100-78-72-55-50-45-28-22-0	100-75-50-25-0	100-78-50-22-0	100-78-71-57-50-43-28-21-0	100-81-69-62.5-50-37.5-31-19-0	100-83-66-55-33-16-0	100-80-70-60-50-40-30-20-0	100-77-73-54-50-45-27-33-0	
Refrigerant oil type	Polyolester POE 3MAF (32cst)												
Oil volume	l	8.8	9.8	11.2	14.8	16.6	17.6	17.6	21.8	20.8	22.2	26.2	
Refrig. circuit number		1			2								
Refrigerant fluid (GWP)	R410A (1890)												
Refrigerant load	kg	21	24	13.0 +13.0	18.0 +18.0	18.2 +19.2	19.5 +19.5	24.2 +23.8	25.4 +25	27 +26.3	27.7 +27	28.5 +27.8	
Electric supply	ph/Hz/V	3~50Hz 400V (+6%/-10%) + Earth											
Unit protection index	IP 44												
Circuit control voltage	ph/Hz/V	1~50Hz 230V (+6%/-10%) - transformer mounted											
Evaporator	Brazed plates type exchanger												
Water content	l	8.68	9.88	10.66	12.48	15.42	15.42	15.8	15.8	18	20.4	20.4	
Chilled water outlet min. / max.	°C	-10 / +18						-12 / +18					
Hot water outlet min. / max.	°C	+30 / +50											
Minimum water flow	m³/h	11.7	13.3	17.3	18.1	20.8	20.8	22.1	24.4	29.3	31.6	34	
Maximum water flow	m³/h	30.7	34.6	41.9	45.9	50.7	50.7	63.2	69.5	77	77	77	
Water connections	∅	Male G 2"1/2			Flange DN80				Flange DN100				
Maximum pressure (water side)	bar	ILD 10 bars / ILDC-ILDH 4 bars											
Air cooled condenser	Finned heat exchanger												
Fan ∅	mm	800											
Number x Motor rated power High Performance series - HP	nb x kW	2x1.7	2x1.7	2x1.8	2x1.7	2x1.7	2x1.7	4x2.24	4x2.24	4x2.24	4x2.24	4x2.24	
Number x Motor rated power Low Noise series - LN	nb x kW	2x1.2	2x1.2	2x1.2	2x1.1	2x1.1	2x1.1	4x1.48	4x1.48	4x1.48	4x1.48	4x1.48	
High Performance air flow - HP	m³/h	44000	42000	41000	44000	44000	44000	84300					
Low Noise air flow - LN - XLN	m³/h	32000	29000	30500	35000	35000	35000	63180					
Mini water content (ILD-ILDC)	l	220	213	357	164	207	203	213	212	213	290	364	
Water tank content model H	l	250						500					
Expansion vessel model C & H	l	18						34					
Standard pump	n°	④											
Height without mounts	mm	2117			2117				2080 (+205 XLN)				
Standard series length	mm	2190			2740				3698				
C series length	mm	2190			2740				3698				
H series length	mm	2190			2740				3698				
Depth	mm	2129			2129				2200				
Std range weight without charge	kg	1096	1195	1283	1570	1706	1878	2270	2320	2365	2445	2505	
C range weight without charge	kg	1194	1292	1355	1675	1804	1976	2550	2600	2645	2725	2825	
H range weight without charge	kg	1257	1356	1418	1748	1868	2040	2680	2730	2775	2855	2955	
Storage temperature	°C	+ 50°C											

① Capacities of HIGH PERFORMANCE series based on :
a/ COOLING : +12°C/+7°C and air inlet temp. at condenser +35°C
b/ HEATING: hot water outlet +45°C and outdoor air +7°C DB 86%RH
② EER and COP are gross values

③ Total sound power Lw, total sound pressure at 10 m from the unit, in free field, conformity with ISO 3744 norm
④ Depending on selection



Water chillers

ELECTRICAL SPECIFICATIONS

■ Standard units (pump not included)

		80V	90V	100V	120V	150V	180V	200V	240V	300V	350V
Electrical supply	ph/Hz/V	3~50Hz 400V (+6%/-10%) + Earth									
Control circuit voltage	ph/Hz/V	1~50Hz 230V (+6%/-10%) - transformer mounted									
Starting current without pump	A	95	111	118	135	198	130	143	149	230	256
Starting current SOFT START option	A	57	66	70	81	118	83	90	104	146	163
Circuit breaker (Neutral condition TN-TT)	kA	15			10		15			10	
Maxi wires section	mm ²	10			35			70			95
Maxi rated current ①	A	16.8	17.8	22.7	24.8	30.9	33.0	43.4	49.6	60.0	72.0

		400V	500V	540V	600V	700V	702V	800V	900V	1000V	1100V	
Electrical supply	ph/Hz/V	3~50Hz 400V (+6%/-10%) + Earth										
Control circuit voltage	ph/Hz/V	1~50Hz 230V (+6%/-10%) - transformer mounted										
Starting current without pump	A	303	320	276	286	325	333	388	440	457	474	
Starting current SOFT START option	A	191	209	192	202	237	243	279	317	333	350	
Circuit breaker (Neutral condition TN-TT)	kA	10	35	10			50					
Maxi wires section	mm ²	95						150				
Maxi rated current ①	A	82.0	104.0	110.0	120.0	138	144	161	190	207	224	

① Pump rated current not included

■ Hydraulic pumps (C and H models)

SINGLE PUMP														
	Pump type	n°	44	45	40	41	42	43	117	118	119	102	103	105
Mini flow	m ³ /h	1.0	1.9	5.0	6.0	7.0	8.0	15.0	15.0	15.0	20.0	20.0	20.0	20.0
Maxi pressure	mCE	20.6	20.9	17.5	21.5	22.0	24.5	15.5	26.0	39.0	14.5	18.0	26.0	33.0
Maxi flow	m ³ /h	8.0	13.0	19.0	22.5	30.0	30.0	50.0	50.0	50.0	70.0	86.0	74.0	74.0
Mini pressure	mCE	7.3	9.7	8.5	8.0	10.0	14.0	10.0	21.0	31.0	8.0	10.0	19.5	27.0
Main supply	V	3ph~50Hz 400V (+6%/-10%) + Earth												
Rated output	kW	0.55	0.75	0.75	1.1	1.5	1.85	2.2	4.0	7.5	3.0	4.0	5.5	7.5
Maxi rated current	A	1.7	2.1	1.85	2.67	3.9	4.61	4.5	7.8	13.8	6.3	8.0	10.3	13.8

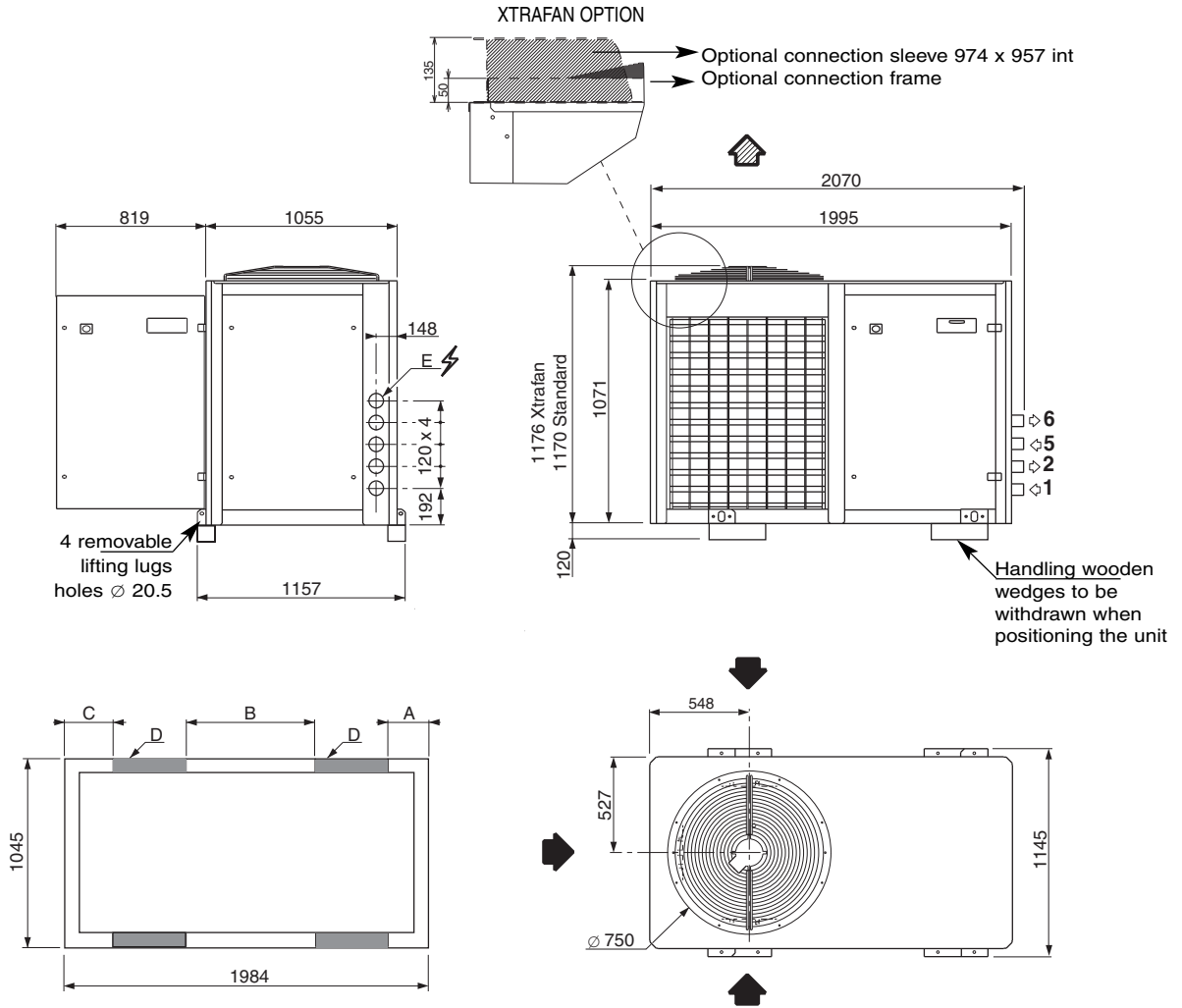
TWIN PUMP												
	Pump type	n°	2 x 40	2 x 41	2 x 42	2 x 43	217	218	219	202	203	205
Mini flow	m ³ /h	5.0	6.0	7.0	8.0	15.0	15.0	15.0	20.0	20.0	20.0	20.0
Maxi pressure	mCE	17.5	21.5	22.0	24.5	15.5	26.0	39.0	14.5	18.0	26.0	33.0
Maxi flow	m ³ /h	19.0	22.5	30.0	30.0	50.0	50.0	50.0	70.0	86.0	74.0	74.0
Mini pressure	mCE	8.5	8.0	10.0	14.0	10.0	21.0	31.0	8.0	10.0	19.5	27.0
Main supply	V	3ph~50Hz 400V (+6%/-10%) + Earth										
Rated output	kW	0.75	1.1	1.5	1.85	2.2	4.0	7.5	3.0	4.0	5.5	7.5
Maxi rated current	A	1.85	2.67	3.9	4.61	4.5	7.8	13.8	6.3	8.0	10.3	13.8



Water chillers

DIMENSIONS

AQUACIAT 2 models 80 - 90



- Outside air discharge
- Outside air inlet

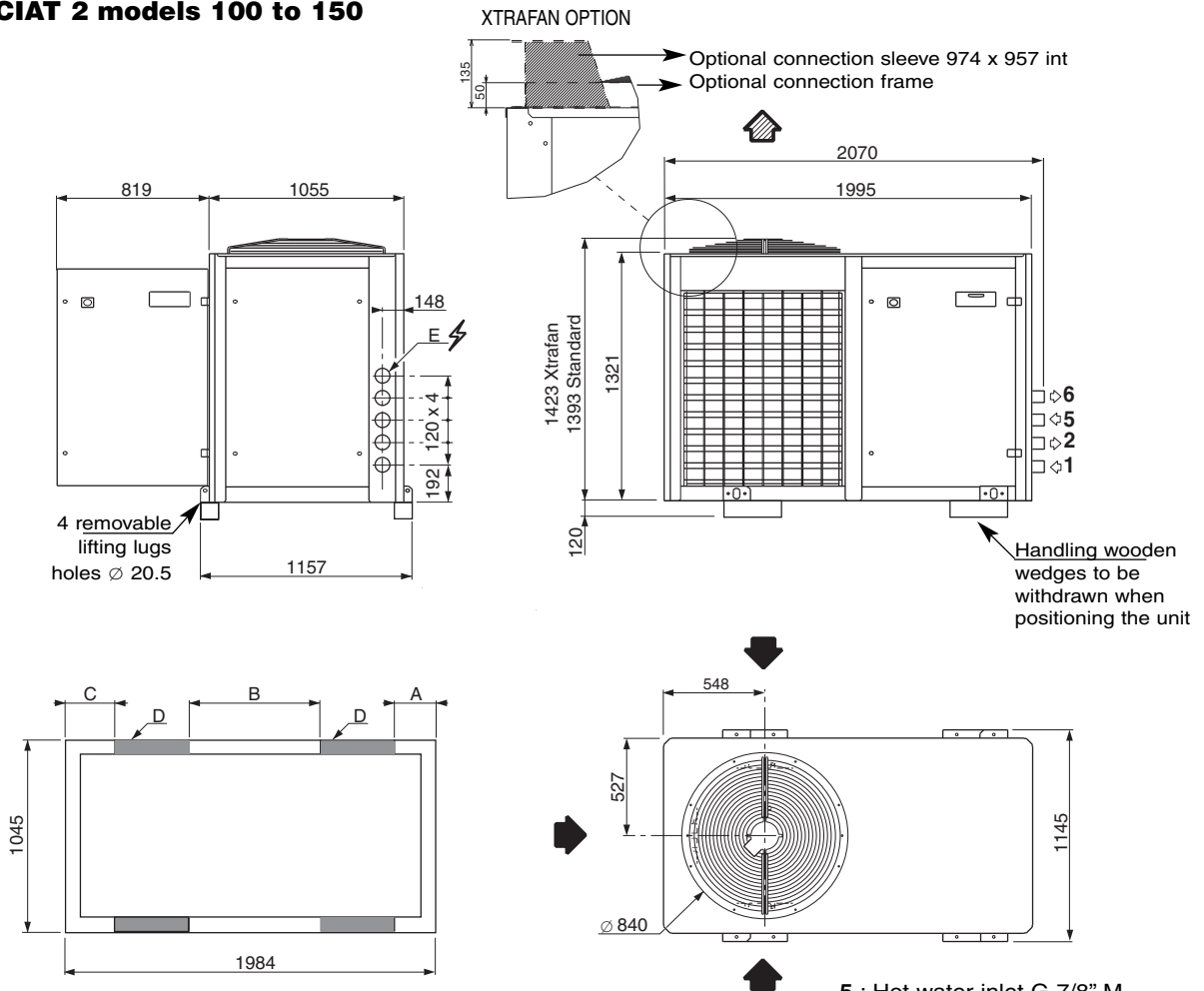
- 5 : Hot water inlet G 3/4" M
- 6 : Hot water outlet G 3/4" M
- 1 : Chilled water inlet G 1"1/4 M
- 2 : Chilled water outlet G 1"1/4 M
- E : Electrical supply Ø 80

A clear space of 1 m on all sides of the units should be allowed for servicing and maintenance operations.

Aquaciat 2	Mounts position			Antivibration mounts	Mass in kg	
	A	B	C		empty	in operation
LD 80	250	1284	250	P25 50 x 100	326	331
LD 90					329	334
LDC 80	250	1284	250	P25 50 x 100	344	349
LDC 90					347	352
LDH 80	140	1114	490	P25 50 x 120	369	474
LDH 90					372	477
ILD 80	250	1284	250	P25 50 x 100	328	333
ILD 90					331	336
ILDC 80	250	1284	250	P25 50 x 100	346	351
ILDC 90					349	354
ILDH 80	140	1114	490	P25 50 x 120	371	476
ILDH 90					374	479

DIMENSIONS

AQUACIAT 2 models 100 to 150



A clear space of 1 m on all sides of the units should be allowed for servicing and maintenance operations.

- Outside air discharge
- Outside air inlet

- 5** : Hot water inlet G 7/8" M
- 6** : Hot water outlet G 7/8" M
- 1** : Chilled water inlet G 1"1/2 M
- 2** : Chilled water outlet G 1"1/2 M
- E** : Electrical supply Ø 80

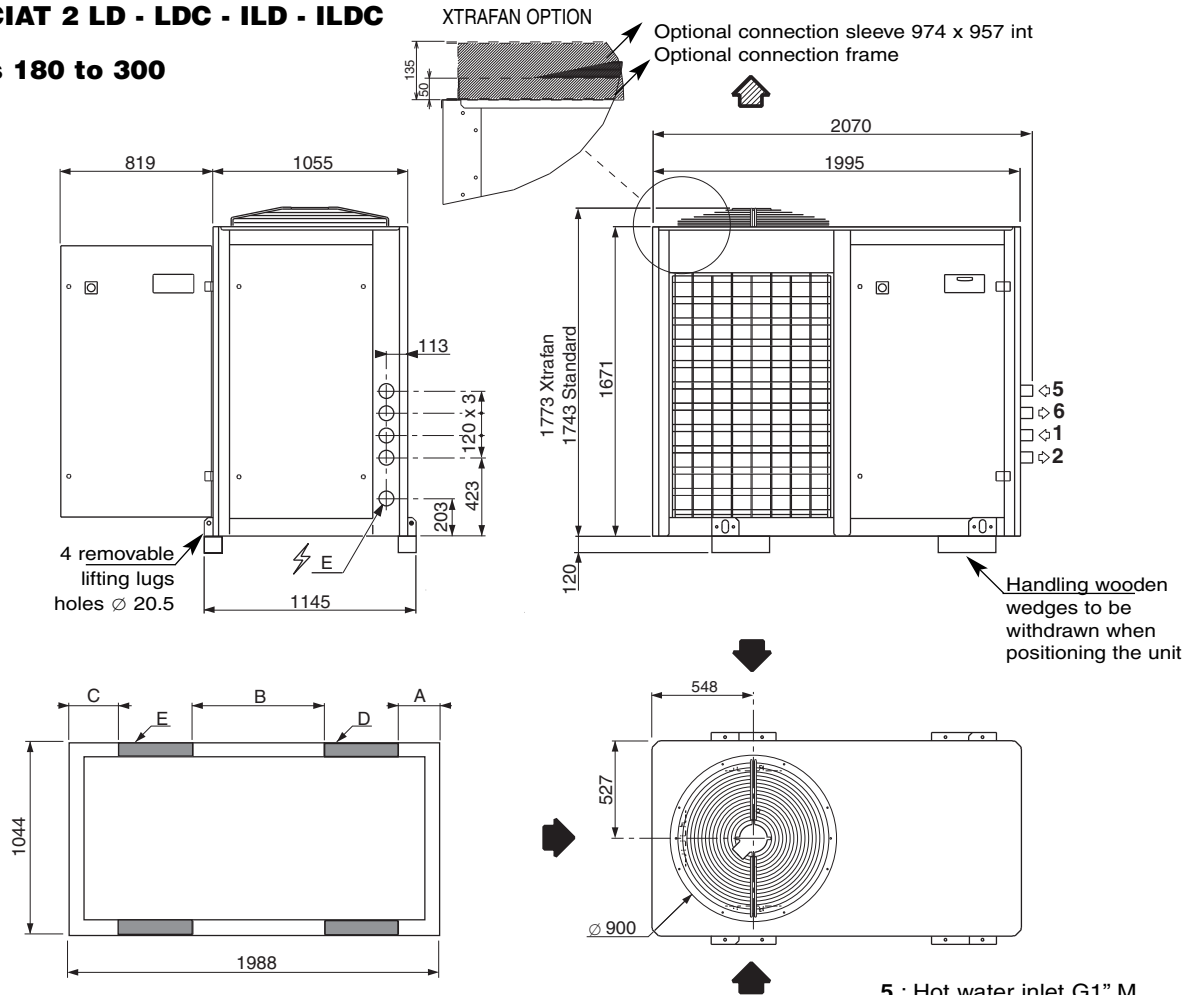
Aquaciat 2	Mounts position				Antivibration mounts	Mass in kg	
	A	B	C	D		empty	in operation
LD	100	250	1284	250	P25 50 x 100	365	370
	120	250	1284	250		367	372
	150	240	1264	240		449	454
LDC	100	250	1284	250	P25 50 x 100	383	388
	120	250	1284	250		385	390
	150	240	1264	240		467	472
LDH	100	125	1084	475	P25 50 x 150	407	562
	120	125	1084	475		409	564
	150	125	1084	475		492	647
ILD	100	250	1284	250	P25 50 x 100	366	371
	120	250	1284	250		368	373
	150	240	1264	240		452	457
ILDC	100	250	1284	250	P25 50 x 100	384	389
	120	250	1284	250		386	391
	150	240	1264	240		470	475
ILDH	100	125	1084	475	P25 50 x 150	409	564
	120	125	1084	475		411	566
	150	125	1084	475		495	650



Water chillers

DIMENSIONS

AQUACIAT 2 LD - LDC - ILD - ILDC models 180 to 300



A clear space of 1 m on all sides of the units should be allowed for servicing and maintenance operations.

- Outside air discharge
- Outside air inlet

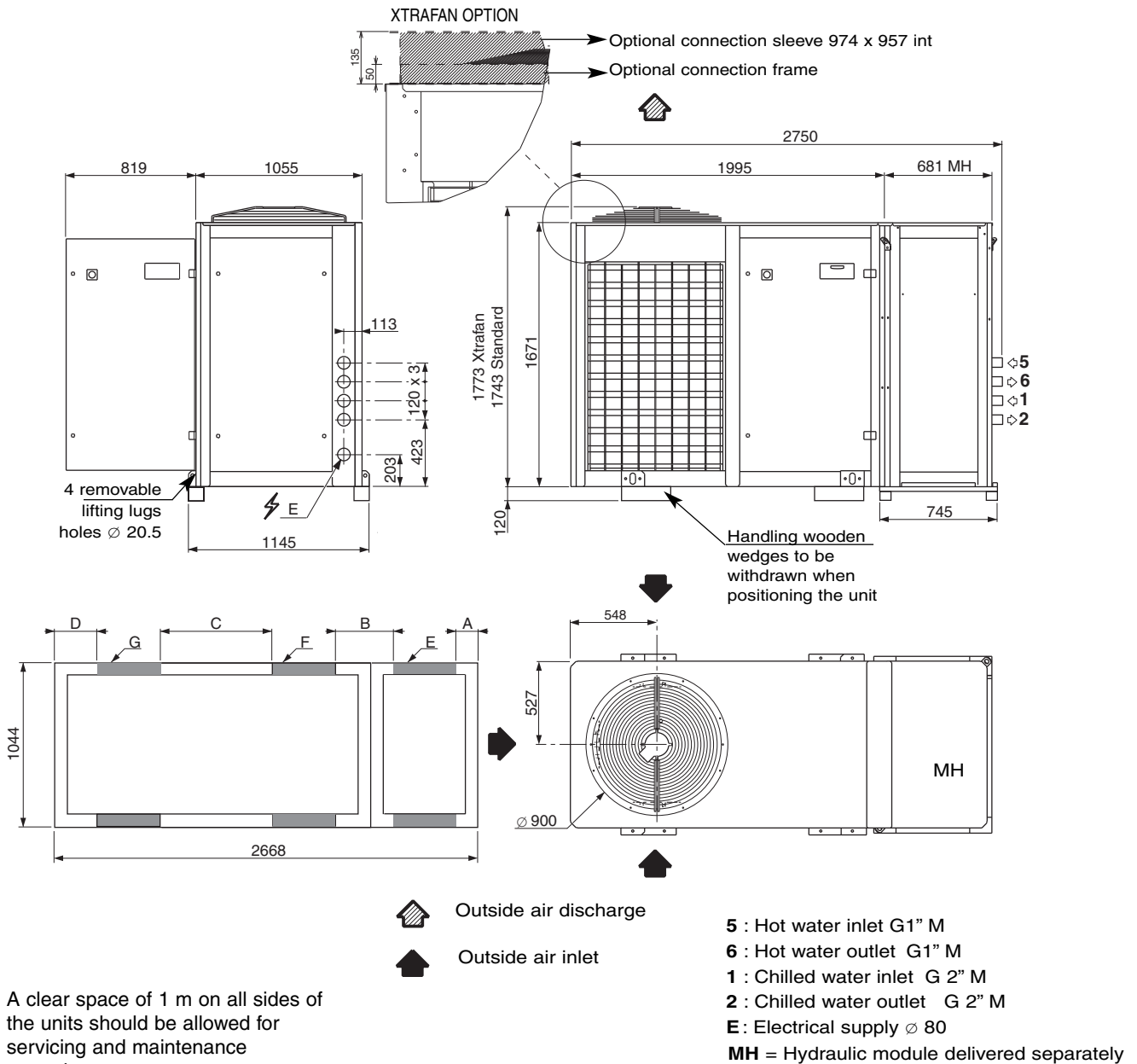
- 5 : Hot water inlet G1" M
- 6 : Hot water outlet G1" M
- 1 : Chilled water inlet G 2" M
- 2 : Chilled water outlet G 2" M
- E : Electrical supply \varnothing 80

Aquaciat 2	Mounts position			Antivibration mounts		Mass in kg	
	A	B	C	D	E	empty	in operation
LD	180	100	328	P25 50 x 150	P25 50 x 150	564	570
	200					570	574
	240					576	580
	300					706	712
LDC	180	100	400	P25 50 x 200	P25 50 x 120	611	615
	200					614	618
	240					620	624
	300					751	755
ILD	180	150	300	P25 50 x 200	P25 50 x 120	611	615
	200					614	618
	240					620	624
	300					756	760
ILDC	180	100	350	P25 50 x 200	P25 50 x 150	648	652
	200					651	655
	240					656	660
	300					789	793

DIMENSIONS

AQUACIAT 2 LDH - ILDH

models 180 to 300

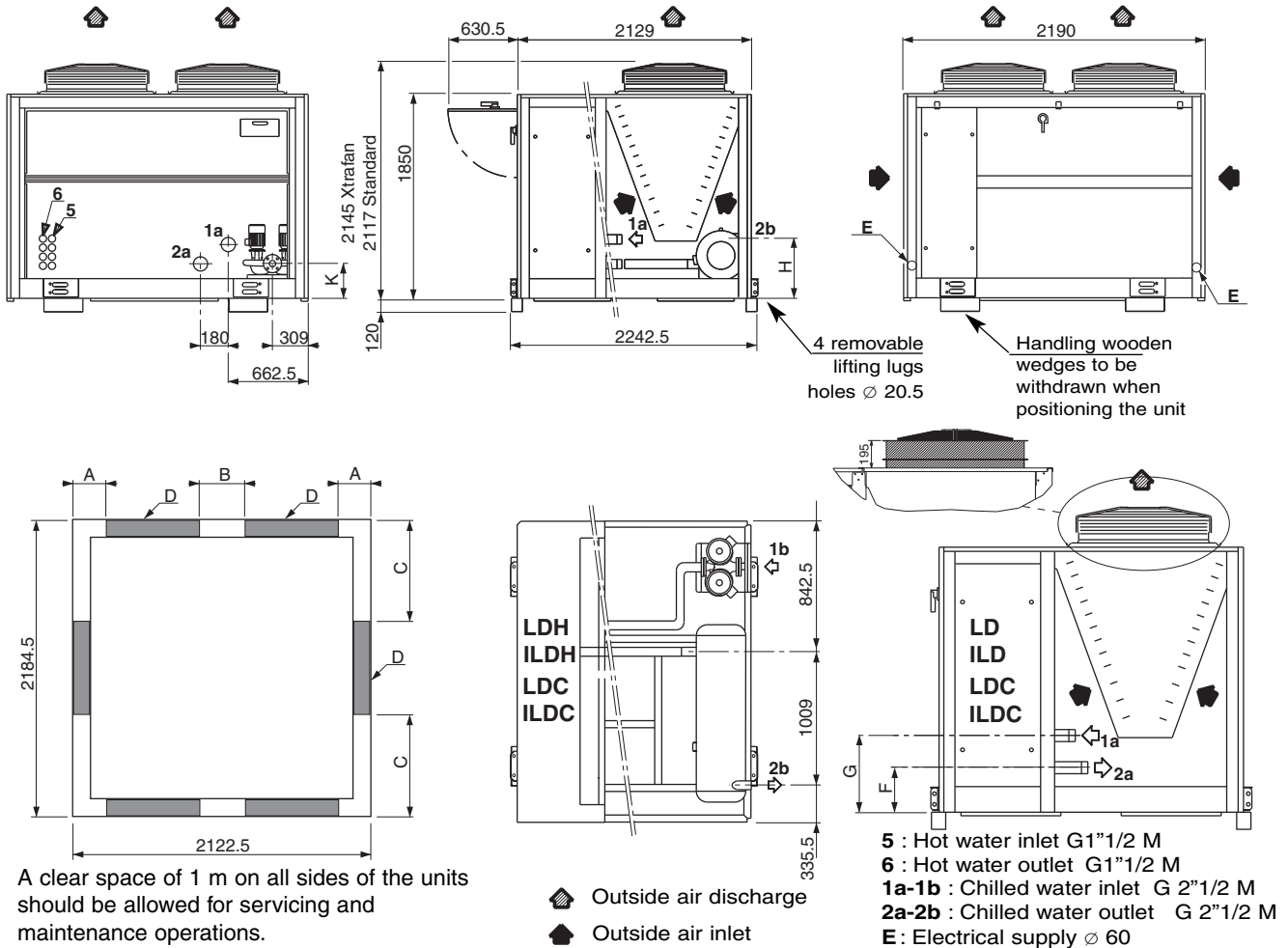


Aquadat 2	Mounts position				Antivibration mounts			Mass in kg	
	A	B	C	D	E	F	G	empty	in operation
LDH 180								808	1012
ILDH 180								845	1049
LDH 200								811	1015
ILDH 200	196	600	1156	196	P25 50 x 200	P25 50 x 200	P25 50 x 120	848	1052
LDH 240								817	1021
ILDH 240								853	1057
LDH 300								948	1152
ILDH 300	196	600	1076	196	P25 50 x 200	P25 50 x 200	P25 50 x 200	986	1190

DIMENSIONS

AQUACIAT 2

models 350 to 500

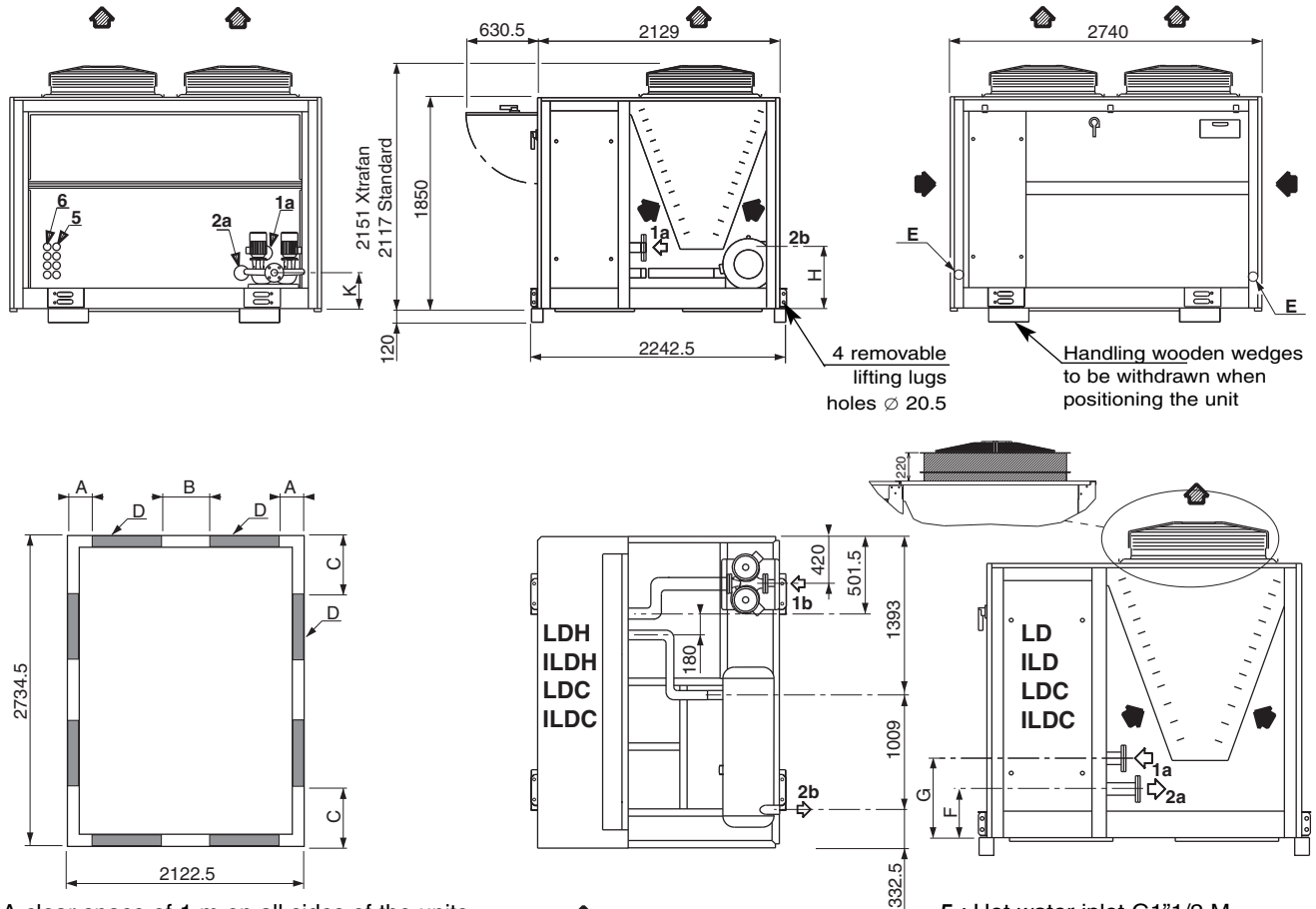


Sizes	K	Pump	Chilled water inlet	Chilled water outlet
LDC-ILDC		N°40-41-42-43	1a	2a
	315	N°117-217-118-218-119-219	1b	2a
LDH-ILDH		N°40-41-42-43	1a	2b
	315	N°117-217-118-218-119-219	1b	2b

Aquaciat 2	Chilled water		Mounts position			Antivibration mounts		Mass in kg				
	Inlet	Outlet	A	B	C	D	no.	F	G	H	empty	in operation
LD 350	1a	2a	150	422.5	742.25	P25 50 x700	4	311	411	548	1046	1066
ILD 350											1096	1116
LD 400											1145	1165
ILD 400											1195	1215
LD 500											1183	1203
ILD 500											1283	1303
LDC 350											1144	1164
ILDC 350											1194	1224
LDC 400											1242	1272
ILDC 400											1292	1322
LDC 500	1254	1275										
ILDC 500	1355	1385										
LDH 350	See table above	See table above	150	422.5	742.25	P25 50 x700	6	311	411	548	1207	1477
ILDH 350											1257	1527
LDH 400											1306	1576
ILDH 400											1356	1626
LDH 500											1318	1588
ILDH 500											1418	1688

DIMENSIONS

AQUACIAT 2 models 540 - 700



A clear space of 1 m on all sides of the units should be allowed for servicing and maintenance operations.

- Outside air discharge
- Outside air inlet

- 5** : Hot water inlet G1¹/₂ M
- 6** : Hot water outlet G1¹/₂ M
- 1a-1b** : Chilled water inlet DN80
- 2a-2b** : Chilled water outlet DN80
- E** : Electrical supply \varnothing 60

Size	K	Pump	Chilled water inlet	Chilled water outlet
LDC-ILDC		N°40-41-42-43	1a	2a
	315	N°117-217-118-218-119-219	1b	2a
LDH-ILDH		N°40-41-42-43	1a	2b
	315	N°117-217-118-218-119-219	1b	2b

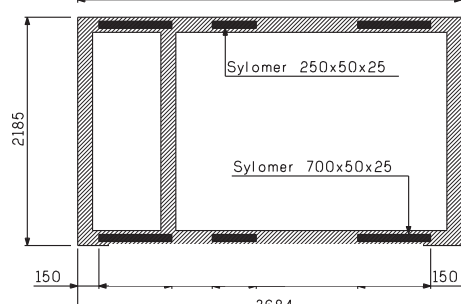
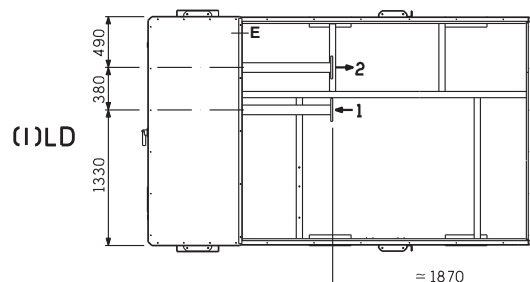
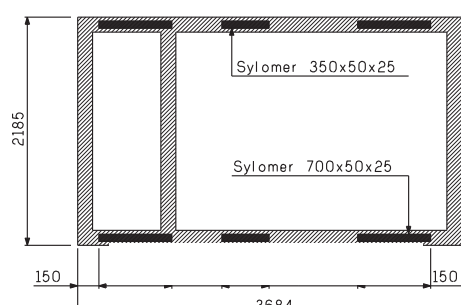
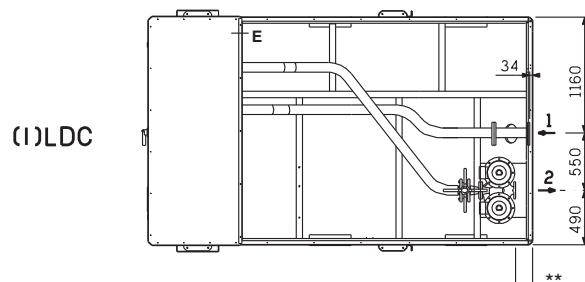
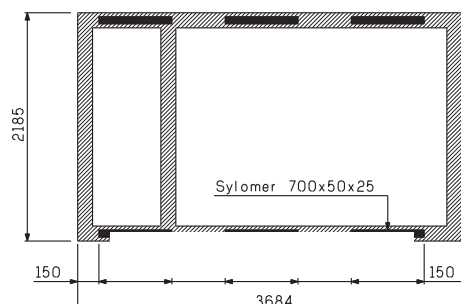
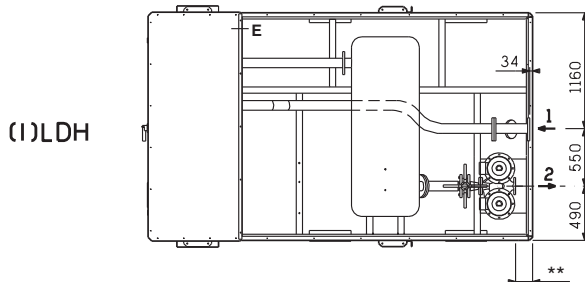
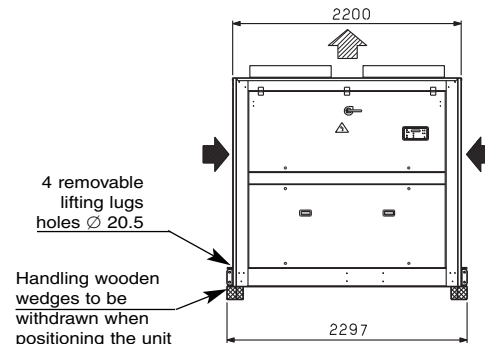
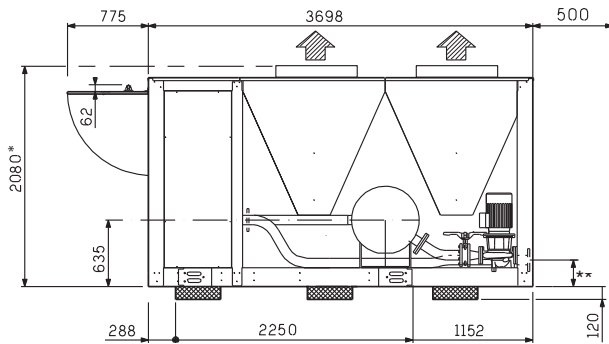
Aquaciat 2	Chilled water		Mounts position			Antivibration mounts		F	G	H	Mass in kg	
	Inlet	Outlet	A	B	C	D	no.				empty	in operation
LD 540	1a	2a	150	422.5	1017.5	P25 50 x700	6	311	411	548	1460	1483
ILD 540											1570	1593
LD 600											1596	1621
ILD 600											1706	1731
LD 700											1768	1793
ILD 700											1878	1903
LDC 540											See table above	
ILDC 540	1675	1710										
LDC 600	1775	1810										
ILDC 600	1804	1839										
LDC 700	1947	1982										
ILDC 700	1976	2011										
LDH 540	See table above		150	422.5	445	P25 50 x700	8	311	411	548		
ILDH 540											1748	2028
LDH 600											1838	2118
ILDH 600											1868	2148
LDH 700											2010	2290
ILDH 700											2040	2320



Water chillers

DIMENSIONS

AQUACIAT 2 models 702 - 1100



1 : Chilled water inlet PN16 DN100
 2 : Chilled water outlet PN16 DN100
 E : Electrical supply \varnothing 80

* 2285 mm Xtra Low Noise XLN model
 ** Depending on pump models

AQUACIAT		LD					LDC					LDH				
		702	800	900	1000	1100	702	800	900	1000	1100	702	800	900	1000	1100
Mass in kg	In operation	2170	2210	2250	2290	2345	2410	2450	2505	2545	2675	3080	3100	3155	3195	3295
	empty	2135	2175	2215	2255	2310	2360	2400	2455	2495	2625	2510	2550	2605	2645	2745

AQUACIAT		ILD					ILDC					ILDH				
		702	800	900	1000	1100	702	800	900	1000	1100	702	800	900	1000	1100
Mass in kg	In operation	2290	2340	2385	2465	2535	2580	2630	2685	2765	2875	3220	3270	3315	3395	3505
	empty	2270	2320	2365	2445	2505	2550	2600	2645	2725	2825	2680	2730	2775	2855	2955

AQUACIAT 2