

Technical Specifications

Performance data

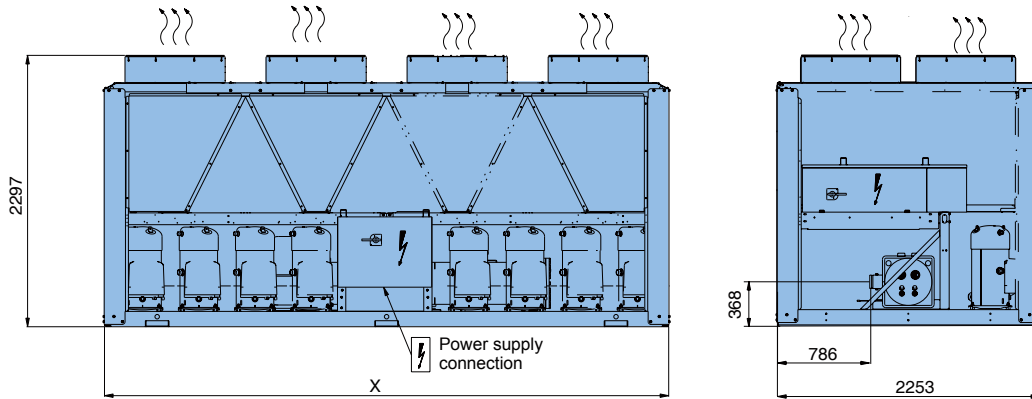
30RB		312PT254	372PT254	482PT254	622PT116D/254	752PT116D/254
Nominal cooling capacity	kW	303	358	474	620	726
Compressor input power	kW	98.8	118.8	157.8	205.5	249.8
EER		2.84	2.79	2.78	2.80	2.70
Operating weight						
Unit with single pump hydronic module	kg	3179	3409	4292	-	-
Unit without hydronic module	kg	2979	3169	4002	5452	6322
Refrigerant				HFC-410A		
Circuit A	kg	37	38.5	46.5	38.5	47
Circuit B	kg	26	38.5	47.5	38.5	48
Circuit C	kg	-	-	-	47	48
Compressor						
Circuit A		3	3	4	3	4
Circuit B		2	3	4	3	4
Circuit C		-	-	-	4	4
Number of capacity stages		5	6	8	10	12
Minimum capacity	%	20	17	13	10	8
Control		Pro-Dialog Plus				
Condenser		Grooved copper tubes and aluminium fins				
Fans						
Quantity		5	6	8	10	12
Total air flow		22567	27081	36107	45134	54161
Speed		960	960	960	960	960
Evaporator						
Water content	l	125	125	113	284	284
Nominal water flow	l/s	14.4	17.1	23.1	29.5	35.6
Nominal water pressure drop	kPa	43	59	92	41	56
Max.water-side pressure without hydronic module	kPa	1000	1000	1000	1000	1000
Hydronic module		Pump, victualic screen filter, safety valve, expansion tank, purge valves etc.				
Water pump		Centrifugal pump				
Water head external to chiller						
High pressure pump at nominal water flow rate	kPa	192	220	227	-	-
Expansion tank	l	80	80	80	-	-
Max.water-side operating pressur with hydronic module	kpa	400	400	400	-	-
Water connection				Victualic		
Diameter(with hydronic module)		DN100	DN100	DN125	-	-
Diameter(without hydronic module)		DN100	DN100	DN150	DN150	DN150
Electrical data				400V-3Ph-50Hz		
Main power supply		Via internal transformer				
Control power supply		Via internal transformer				
Nominal unit current draw, Circuit A+B	A	181	225	293	251	302
Nominal unit current draw, Circuit C		-	-	-	135	167
Maximum unit current draw, Circuit A+B	A	237	295	387	329	394
Maximum unit current draw, Circuit C		-	-	-	175	219
Maximum start-up current, Circuit A+B	A	447	501	601	535	601
Maximum start-up current, Circuit C		-	-	-	382	426
Total fan power input	kW	7.9	9.5	12.7	15.9	19.1
Pump power input(high pressur single pump)	kW	6.4	8.4	12.1	-	-

* Nominal cooling mode - evaporator entering/leaving water temperature 12/7 °C , outside air temperature 35 °C , Evaporator fouling factor = 0.018m²K/kW.

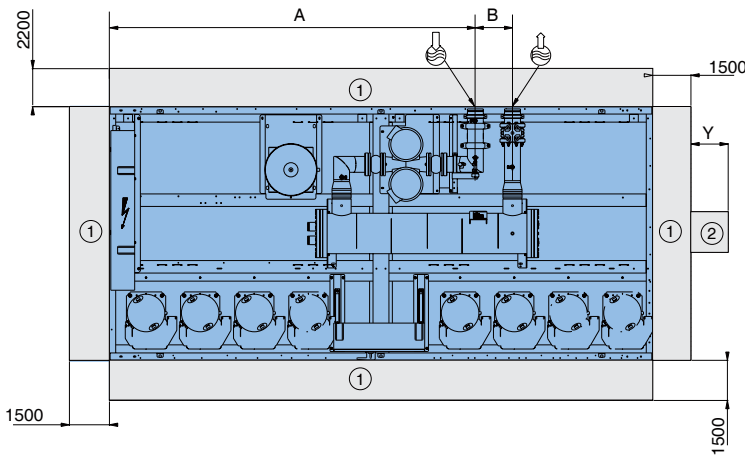
** Integrated hydronic module is not suitable for 30RB622/752.

Dimensions/Clearances

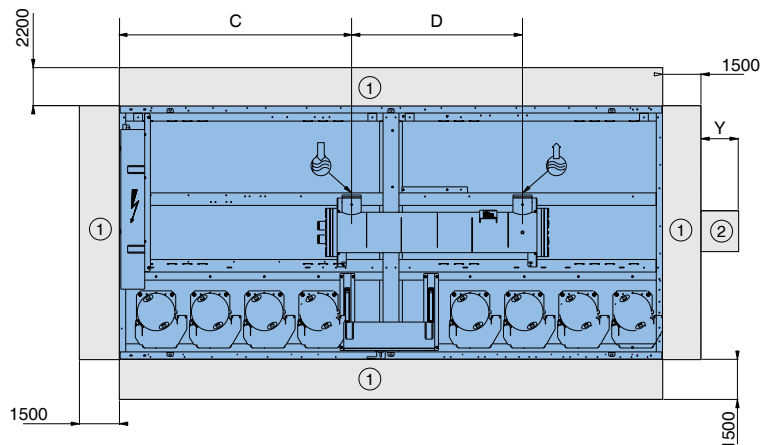
30RB 312 / 372 / 482



Standard unit with high pressure single pump hydronic module*



Unit without hydronic module



- ① Required clearances for maintenance and air flow
- ② Recommended space for evaporator tube removal
- ↙ Water inlet
- ↘ Water outlet
- ⚡ Power supply connection
-))) Air outlet - do not obstruct

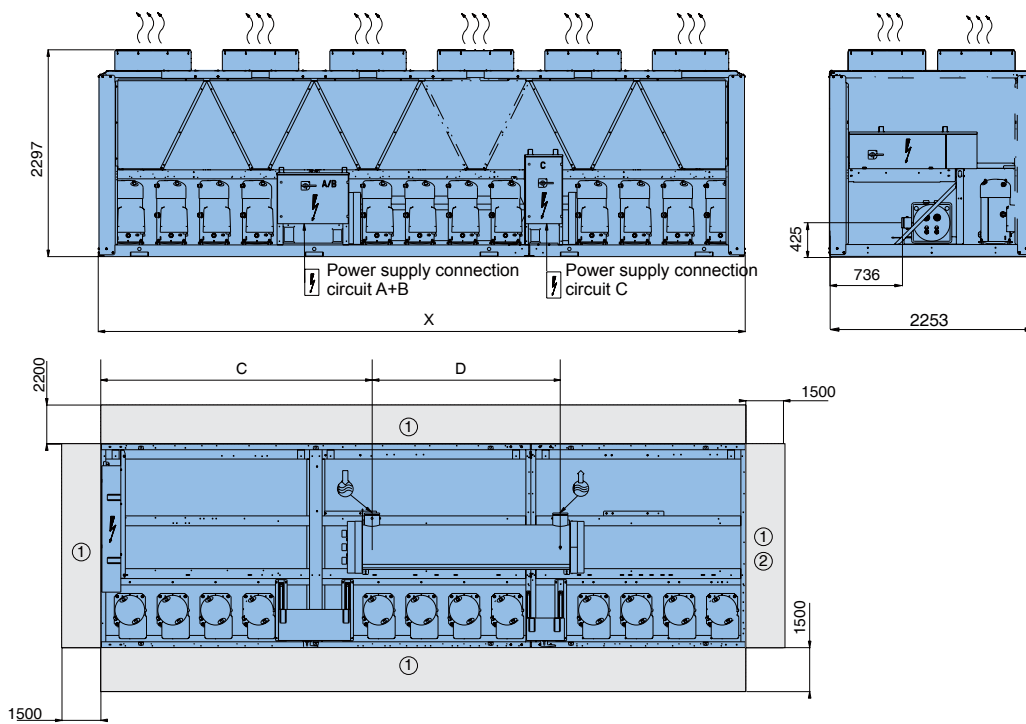
30RB	A	B	C	D	X	Y
312/372	2746	323	1566	1503	3604	200
482	3218	327	2042	1503	4798	0

*Please contact local Carrier operation for other integrated hydronic module options

Dimensions/Clearances

30RB 622 / 752

Standard unit without hydronic module





① Required clearances for maintenance and air flow

② Recommended space for evaporator tube removal

 Water inlet

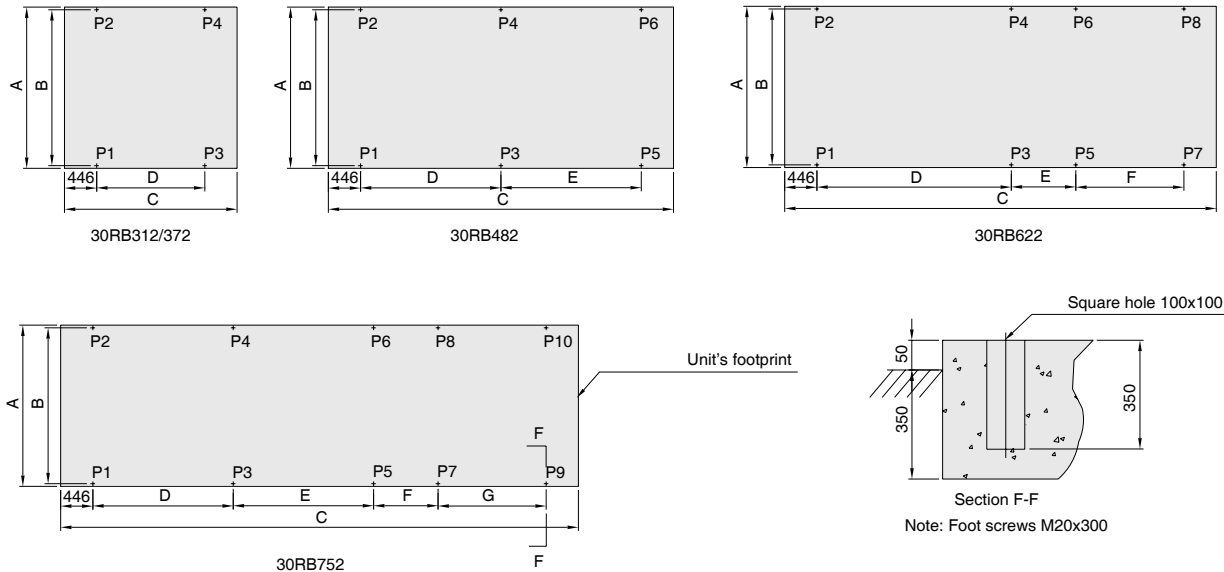
 Water outlet

 Power supply connection

 Air outlet - do not obstruct

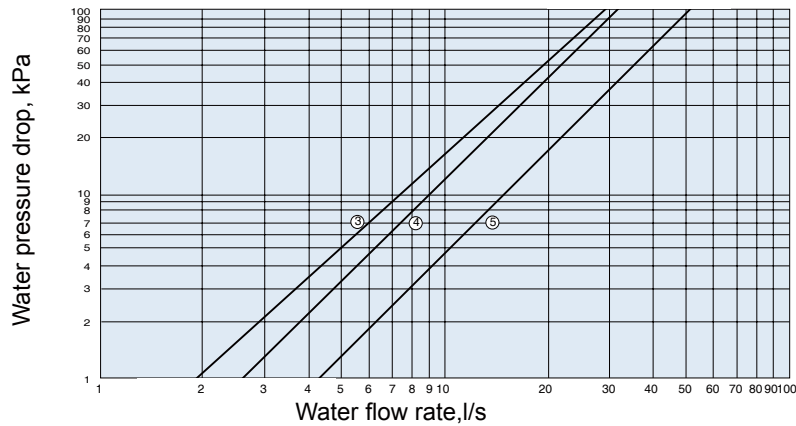
30RB	C	D	X
622PT116D	2532	2091	5992
752PT116D	3008	2091	7186

Weight Distribution



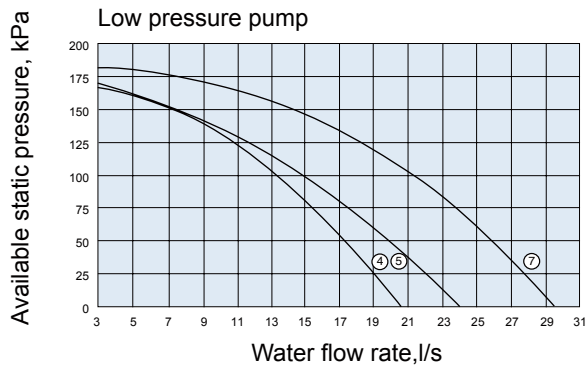
Models	Dimensions(mm)							Weight distribution(kg)										Operating weight
	A	B	C	D	E	F	G	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	
30RB312PT254	2231	2157	3582	2690				887	736	850	706							3179
30RB372PT254	2231	2157	3582	2690				916	719	993	781							3409
30RB482PT254	2231	2157	4776	1942	1942			649	523	1077	819	686	538					4292
30RB622PT116D/254	2231	2157	5970	2690	892	1496		905	718	809	615	809	615	544	437			5452
30RB752PT116D/254	2231	2157	7164	1942	1942	892	1496	509	384	1161	943	660	585	660	660	533	227	6322

Evaporator Pressure Drop

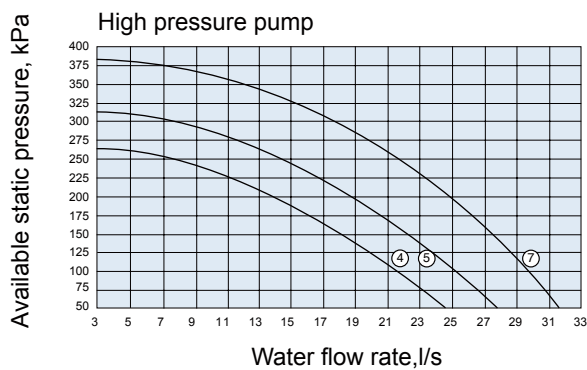


- 3 30RB 312 / 372
- 4 30RB 482
- 5 30RB 622 / 752

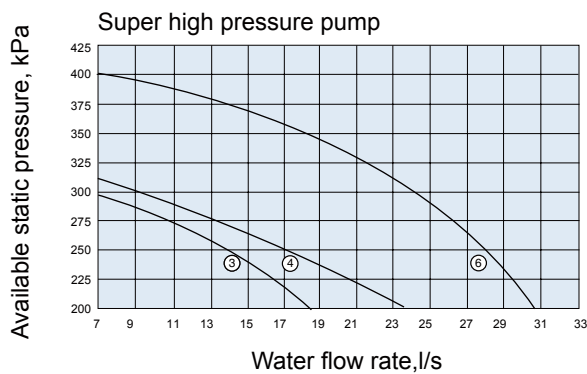
Available Static Pressure



- 4 30RB 312
- 5 30RB 372
- 7 30RB 482



- 4 30RB 312
- 5 30RB 372
- 7 30RB 482



- 3 30RB 312
- 4 30RB 372
- 6 30RB 482