Water Cooled, Chiller and Condenserless

RWC/RWR 170–360

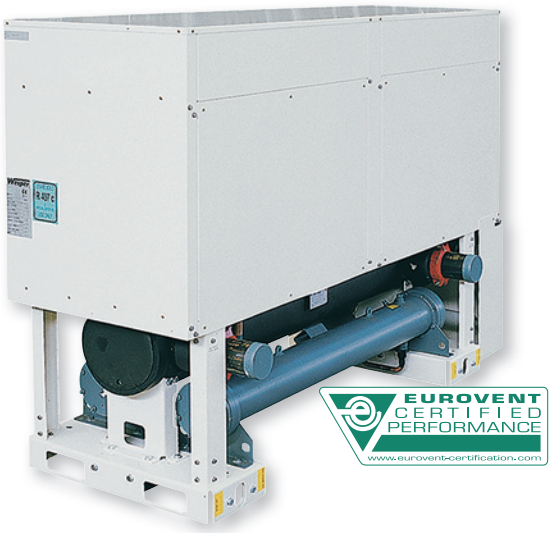
161–312 kW HFC 407C Scroll

Technical features

- 6 sizes.
- Cooling capacity from 161 to 312 kW.
- 2 versions:
  RWC (Cooling only);
  RWR (Condenserless).
- Two refrigerant circuits.
- Scroll compressors.
- S&T evaporator and condenser.

Accessories and options

- Sofstart.
- BMS interface.
- Flow switch.
- Power factor corrector capacitors.
- Water filter.
- Compressors jackets.
- Sequence phases control as standard.
- Mechanical gauges kit.
- Compressors acoustic box as standard.



Operating limit

RWC / RWR				170		200		240		280		320		360	
				Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Evaporator	Leaving water tempe-rature	Water	°C	from +6 to +15											
		Water + glycol	°C	from -5 to +15											
		Δ T	K	from +3 to +7											
Condenser (2)	Leaving water temperature		°C	from +30 to +50											

(2) Only for RWC models.

Technical feature RWC 170–360

Model RWC		170	200	240	280	320	360
Cooling capacity (1)	kW	160,8	186,5	210,6	263,6	283,7	312,3
Power input (1)	kW	45,8	52,6	56,8	73,0	81,7	90,5
Heat rejection (1)		205,7	238,4	267,4	336,6	365,4	402,8
Number of refrigerant circuits		2	2	2	2	2	2
Part load steps	%	4	4	4	4	4	4
Startup type		Direct					
Compressor							
Qty		4	4	4	4	4	4
Type		Scroll					
Evaporator							
Type		Shell & Tube					
Qty		1	1	1	1	1	1
Water flow	l/s	7,7	8,9	10,1	12,6	13,6	14,9
Water pressure drop	kPa	36	48	21	33	39	47
Water volume	l	63	63	53	53	53	53
Connection type		Victaulic					
Inlet/outlet diameter	inch	4″	4″	4″	4″	4″	4″
Condenser							
Type		Shell & Tube					
Qty		2	2	2	2	2	2
Water flow	l/s	4,9	5,7	6,4	8,0	8,7	9,6
Water pressure drop	kPa	27	37	29	46	34	41
Water volume	l	7,2	7,2	9,4	9,4	11,6	11,6
Connection type		Victaulic					
Inlet/outlet diameter	inch	2″	2″	2½″	2½″	2½″	2½″
Weight							
Shipping	kg	1.217	1.262	1.398	1.514	1.540	1.554
Operating	kg	1.294	1.339	1.470	1.586	1.616	1.630
Dimensions							
Length	mm	2.200	2.200	2.200	2.200	2.200	2.200
Width	mm	800	800	800	800	800	800
Height	mm	1.820	1.820	1.820	1.820	1.820	1.820
Acoustical data (without compressors jackets)							
Sound power level	dB(A)	81	82	82	84	85	86
Sound pressure level (2)	dB(A)	63,9	64,9	64,9	66,9	67,9	68,9
Acoustical data (with compressors jackets)							
Sound power level	dB(A)	77	78	78	80	81	82
Sound pressure level (2)	dB(A)	59,9	60,9	60,9	62,9	63,9	64,9

(1) Data refered to evaporator water temperature 12/7°C and condenser water temperature 30/35°C.
(2) The sound pressure is calculated from a distance of 1 m.

Technical feature RWR 170–360

Model RWR		170	200	240	280	320	360
Cooling capacity (1)	kW	160,8	186,5	210,6	263,6	283,7	312,3
Power input (1)	kW	45,8	52,6	56,8	73,0	81,7	90,5
Heat rejection (1)		205,7	238,4	267,4	336,6	365,4	402,8
Number of refrigerant circuits		2	2	2	2	2	2
Part load steps	%	4	4	4	4	4	4
Startup type		Direct					
Compressor							
Qty		4	4	4	4	4	4
Type		Scroll					
Evaporator							
Type		Shell & Tube					
Qty		1	1	1	1	1	1
Water flow	l/s	7,3	8,5	9,6	12	13	14,2
Water pressure drop	kPa	32	43	19	30	35	42
Water volume	l	63	63	53	53	53	53
Connection type		Victaulic					
Inlet/outlet diameter	inch	4″	4″	4″	4″	4″	4″
Remote condenser refrigerant connections							
Connection type		To be brazed					
Inlet diameter	inch	1⅜″	1⅜″	1⅜″	1⅜″	1⅜″	1⅜″
Outlet diameter	inch	⅞″	⅞″	⅞″	⅞″	⅞″	⅞″
Weight							
Shipping	kg	1.080	1.122	1.216	1.313	1.327	1.341
Operating	kg	1.143	1.185	1.269	1.366	1.380	1.394
Dimensions							
Length	mm	2.200	2.200	2.200	2.200	2.200	2.200
Width	mm	800	800	800	800	800	800
Height	mm	1.820	1.820	1.820	1.820	1.820	1.820
Acoustical data (without compressors jackets)							
Sound power level	dB(A)	81	82	82	84	85	86
Sound pressure level (2)	dB(A)	63,9	64,9	64,9	66,9	67,9	68,9
Acoustical data (with compressors jackets)							
Sound power level	dB(A)	77	78	78	80	81	82
Sound pressure level (2)	dB(A)	59,9	60,9	60,9	62,9	63,9	64,9

(1) Data refered to evaporator water temperature 12/7°C and condensing temperature 45°C.
(2) The sound pressure is calculated from a distance of 1 m.