

BEIJER REF

Singapore



CONDENSER

 **Muller**

Commercial Condenser

KRC Series



Nomenclature

KRC ① 80 ② C ③ -4P ④ H ⑤ S ⑥ -C ⑦

- ① KRC:Air cooled condenser series

② 80:Capacity Watts per Degree TD/10

③ Regular Options-Set up on RMS

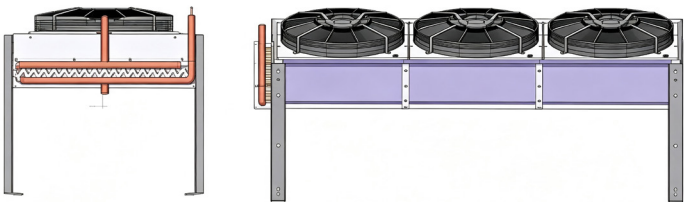
Blank:(Blue Fin/Cu coil,Power Coat Panels)

④ Fan Type: 6P=6 POLE AC FAN / 4P=4 POLE AC FAN
- ⑤ H= High performance Coil

⑥ Special (Non-Regular)Option and Combination

⑦ C:Order Code

Advantages



Installation

Flexible forms of installation allow top and side ventilation.

Description

- All panels are powder coated for long life and corrosion resistance.
- The units can be installed vertically or horizontally for maximum flexibility.
- KRC Condenser use quality external rotor motor fans for long life and serviceability.
- For noise sensitive areas offer selections for low noise performance.
- Range from 12.0kW to 25.8kW.
- Optimised Coil Design incorporating Inner Grooved Tube for enhanced heat transfer.
- 9000 Series coil technology applied to the inline four fan modules.
- Header clearance holes in ensure the end/divider plates remain a leak free zone.
- Euro leg design for height adjustability (vertical airflow configuration only).
- 4P Single Phase in 350mm and 500mm Fan Diameters.
- 6P Single Phase in 500mm and 630mm Fan Diameters.
- Deep Spun Venturi on all models to maximise fan performance.

Options

● Standard ① Optional × Not available		
Category	Option	Availability
Motor	ZIEHL-ABEGG motor	●
	Freddox motor	①
Fin	Fin coating (blue fin)	①
Casing	Galvanized steel plain sheet	●
	Stainless steel	×
Fin spacing	12FPI (2.12mm)	●
Other	Fan wiring	●

Note:
If need other unlisted accessories,please consult Bejer Ref local representative office.

Technical Data

Model	Technical data						Electrical Data					
	Capacity *W/K					Air flow m³/h	Fan Diam (mm)	No.of fans	Phase current (A)	Phase voltage (V)	Total power (W)	Max current (A)
	R404A	R507A	R448A	R449A	R134a							
KRC80-4PH-C	803	787	715	715	746	4536	350	2	0.58	220-1	260	1.16
KRC107-4PH-C	1076	1054	958	958	1001	4662	350	2	0.58	220-1	260	1.16
KRC134-4PH-C	1338	1311	1191	1191	1245	4356	350	2	0.58	220-1	260	1.16
KRC137-6PH-C	1366	1339	1216	1216	1271	3942	500	1	1.35	220-1	290	1.35
KRC181-6PH-C	1635	1602	1455	1455	1520	8766	500	2	1.35	220-1	580	2.7
KRC254-6PH-C	1807	1771	1608	1608	1681	7812	500	2	1.35	220-1	580	2.7
KRC164-4PH-C	2135	2092	1900	1900	1986	5508	500	1	2.8	220-1	640	2.8
KRC213-4PH-C	2544	2493	2264	2264	2366	11844	500	2	2.8	220-1	1280	5.6
KRC317-4PH-C	3171	3108	2822	2822	2949	10476	500	2	2.8	220-1	1280	5.6
KRC389-6PH-C	3885	3807	3458	3458	3613	13482	630	2	2.62	220-1	1200	5.24
KRC457-6PH-C	4572	4481	4069	4069	4252	23310	630	3	2.62	220-1	1800	7.86
KRC574-6PH-C	5738	5623	5107	5107	5337	20232	630	3	2.62	220-1	1800	7.86
KRC693-6PH-C	6927	6788	6165	6165	6442	31518	630	4	2.62	220-1	2400	10.48
KRC861-6PH-C	8611	8439	7664	7664	8008	27918	630	4	2.62	220-1	2400	10.48

- Capacity data are based on sub- cooling oK, ambient temp of 32,18KTD(Temp diffKTD: Saturated temp of condenser outlet-air temp of inlet(ambient temp),minimum actual KTD is 3K)
- Electrical Data are based on fan motor operating at 100% speed.

Technical Data

Model	Coil data					Noise Data		
	Rows	F.P.I	Refrigeration line			Sound power level LwA dBA	Sound pressure level LpA dBA 3m	Noise ratio
			Charge	Connection				
			R404A	Inlet	Outlet			
KRC80-4PH-C	3	10	1.8	15.9	12.7	77	59.5	54
KRC107-4PH-C	4	10	3	15.9	12.7			
KRC134-4PH-C	6	10	5.4	19	15.9			
KRC137-6PH-C	6	10	5.4	19	15.9	75.8	58.3	52
KRC181-6PH-C	3	10	4.5	22.2	19	78.8	61.3	55
KRC254-6PH-C	6	10	10.2	25.4	22.2			
KRC164-4PH-C	6	10	5.4	19	15.9	81	63.5	59
KRC213-4PH-C	3	10	4.5	22.2	19	84	66.5	62
KRC317-4PH-C	6	10	10.2	25.4	22.2			
KRC389-6PH-C	5	10	11.4	31.8	28.6	78.8	61.3	58
KRC457-6PH-C	3	10	10.4	34.9	31.8	80.6	63.1	60
KRC574-6PH-C	5	10	17.3	34.9	31.8			
KRC693-6PH-C	3	10	19.1	38.1	38.1	81.8	64.3	62
KRC861-6PH-C	5	10	31.8	38.1	38.1			

- Charging quantity: During the evacuation cycle, the mixture should consist of 80% liquid and 20% gas in the coil, with a condensation temperature of 55°C .

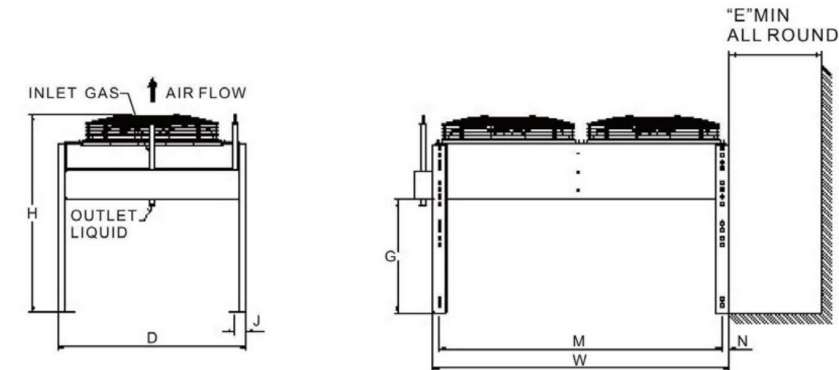
pumpdown charge conversion factors to R404A				
Refrigeration	R404A	R507A	R134a	R407C
Factor	1.00	1.05	1.24	1.13

Ratio of -5SST & 40SCT operating charge to pumpdown charge				
Refrigeration	R404A	R507A	R134a	R407C
Factor	0.34	0.35	0.21	0.26

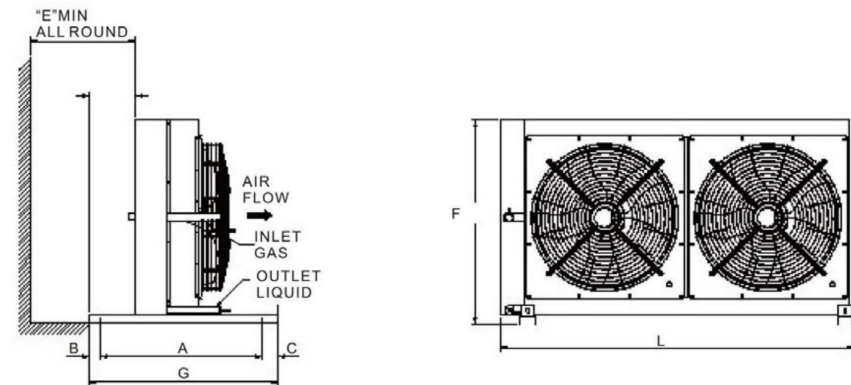
Dimensions

Model	Dimensions														Transport volume (m³)	weight(kg)	
	A	B	C	D	E	F	G	H	J	K	L	M	N	W		Net weight	w/packaging
KRC80-4PH-C	452	48	80	470	500	443	390	705	40	165	951	877	25	927	0.247	29	34
KRC107-4PH-C	452	48	80	570	500	520	390	705	40	165	951	877	25	927	0.299	34	39
KRC134-4PH-C	452	48	80	670	500	647	390	725	40	165	951	877	25	927	0.351	46	51
KRC137-6PH-C	452	48	80	670	500	647	390	745	40	165	951	877	25	927	0.373	51	56
KRC181-6PH-C	766	54	75	849	500	788	605	1020	62	220	1262	1165	38	1241	0.692	68	85
KRC254-6PH-C	766	54	75	954	500	915	605	1020	62	255	1262	1165	38	1241	0.692	93	110
KRC164-4PH-C	452	48	80	670	500	647	390	745	40	165	951	877	25	927	0.373	51	56
KRC213-4PH-C	766	54	75	849	500	788	605	1020	62	220	1262	1165	38	1241	0.692	68	85
KRC317-4PH-C	766	54	75	954	500	915	605	1020	62	255	1262	1165	38	1241	0.692	93	110
KRC389-6PH-C	766	54	75	1004	750	965	605	1050	62	220	1675	1505	38	1581	1.014	129	153
KRC457-6PH-C	766	54	75	1004	750	965	605	1050	62	255	2408	2240	38	2316	2.55	158	248
KRC574-6PH-C	766	54	75	1004	750	965	605	1050	62	255	2408	2240	38	2316	2.55	186	276
KRC693-6PH-C	840	80	80	1107	750	1065	610	1050	18	440	3205	3003	44	3091	4.34	208	328
KRC861-6PH-C	840	80	80	1107	750	1065	610	1050	18	400	3205	3003	44	3091	4.34	263	383

► Top Ventilation Condenser



► Side Ventilation Condensers



Correction Factors

Discharge temp correction factors(based on discharge temp 100°C)				
Refrigeration	R404A	R134a	R410A	R22
discharge temp 85°C	0.978	0.97	0.985	0.988

(K1) Ambient correction factors							
Ambient temperature	15	20	25	30	35	40	45
Factor	0.979	0.986	0.992	0.998	1.003	1.008	1.013

(K2) Altitude correction factors							
Altitude	0	600	800	1000	1200	1400	1600
Factor	1	1.04	1.06	1.075	1.09	1.11	1.12

(K3) Internal sub-cooling factors					
Subcooling	Condensing temperature difference KTD				
	3	5	10	15	20
2	0.966	0.976	0.989	0.994	0.996
4	-	0.934	0.975	0.986	0.99
6	-	-	0.946	0.972	0.98
8	-	-	0.898	0.96	0.966

(K3) Extra sub-cooling				
Subcooling	4	6	8	10
Factor	0.95	0.93	0.91	0.88

(K4) Refrigeration correction factors				
Refrigeration	R502	R22	R407B	R407C
Factor	0.96	0.95	0.92	0.9

- The calculated heat dissipation divided by an appropriate coefficient is the actual required heat dissipation (based on R404A)
- The correction coefficient for refrigerant here is the average of correction coefficients for all different product models, and the variation in these coefficients with changes in KTD is very minor. However, these coefficients are still sufficiently accurate for most system selection purposes.

(K5) Fin correction factors	
Aluminum	1

- The actual required heat dissipation (based on aluminum fins) is calculated by dividing the calculated heat dissipation by the correction factor.

Required condenser standard THR = K2 / K0×K1×K3×K4×K5 × Required capacity

Commercial Condenser

MRS Series



Nomenclature

Brand	Series Name	Fan Rows	No. of Fans	Capacity Range
M: Muller	R	S: Single D: Double	1 ~ 6	000 - 999

Description

- All condensers are using inner groove tubes to achieve higher heat transfer coefficient
- Using German technology fan set for high performance and high durability
- Dual fan set to allow lower fan speed to achieve lower noise dB(A)
- High collar fan venturi 4.5” to achieve higher air volume for higher capacity
- Power coated fan casing for good aesthetic appearance and easy cleaning
- Available for 2R condenser rows to achieve up to 240kW (optional)
- Only 1 size of fan set – easy to carry spare parts for replacement
- Only available for horizontal air throw

Technical Data

Model	Capacity		Fans No.x Dia	Power Supply Δ/Y	Air Flow		Input Power		Current		Length x Width x Height
	kW @15KTD				m³/h		kW		A		
	Δ	Y			Δ	Y	Δ	Y	Δ	Y	mm x mm x mm
MRS1075	30.2	28.1	1x500	3-400V,50Hz	8300	7300	0.72	0.6	1.41	1	1015 x 450 x 924
MRS1100	38.1	35.7	1x500	3-400V,50Hz	7830	6810	0.72	0.6	1.41	1	1015 x 450 x 924
MRS2120	49.1	45.2	2x500	3-400V,50Hz	16300	14200	1.44	1.1	2.82	2	1590 x 450 x 924
MRS2150	58.4	53	2x500	3-400V,50Hz	15660	13640	1.44	1.1	2.82	2	1590 x 450 x 924
MRS2200	64.5	59.1	2x500	3-400V,50Hz	15410	13400	1.44	1.1	2.82	2	1590 x 450 x 924
MRS2250	70.2	63.6	2x500	3-400V,50Hz	14820	12840	1.44	1.1	2.82	2	1590 x 450 x 924
MRS3250	89.3	81.2	3x500	3-400V,50Hz	23490	20460	2.16	1.7	4.23	3	2325 x 450 x 924
MRS3275	98.4	89.4	3x500	3-400V,50Hz	23115	20100	2.16	1.7	4.23	3	2325 x 450 x 924
MRS3300	107.4	96.6	3x500	3-400V,50Hz	22230	19260	2.16	1.7	4.23	3	2325 x 450 x 924
MRS3350	120.5	109.2	3x500	3-400V,50Hz	23490	20430	2.16	1.7	4.23	3	2850 x 450 x 924
MRS4400	146.3	131.9	4x500	3-400V,50Hz	29640	25680	2.88	2.2	5.64	4	3105 x 450 x 924

Note:
Capacity based on R404a

Commercial Condenser

WRC Series



Nomenclature

WRC ① 198 ② LN ③ -EM ④

- ① WRC:Air cooled condenser series

② 198:Nominal capacity =capacity/100

③ Motor type

LN:8-pole low noise motor

Blank:6-pole standard motor
- ④ EM:EBM EC Motor

Blank:ZIEHL-ABEGG Motor

Capacity based on sub-cooling of 0K,ambient temp of 32°C ,condensing temp of 50°C ,suctiontemp of 100°C ,R404A.

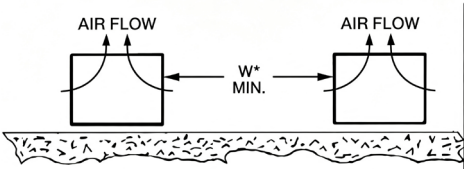
Advantages

Installation

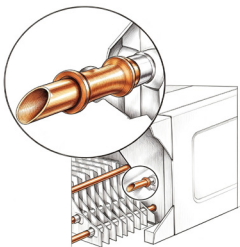
Flexible forms of installation allow top and side ventilation.



Top ventilation



Multiple application



Floating coil

Description

- "Floating coil " technology eliminates there- sulted from thermal expansion and contraction prolonging the life of condenser.
- Grooved tubes enhance heat transfer.
- External two-speed three-phase motor and bulit-in thermal protection,inteqral header protection shield.
- IP54 standard electrical cabinet.

Options

● Standard ◐ Optional × Not available

Category	Option	Availability
Motor	Freddox motor	×
	EBM motor(EC)	◐
	ZIEHL-ABEGG motor	●
Fin	Fin coating (blue fin)	◐
	Galvanized steel plain sheet	●
	Stainless steel	×
Fin spacing	12FPI (2.12mm)	●
	10FPI(2.54mm)	◐
	9FPI(2.82mm)	◐
Other	Fan wiring	●
	Electrical cabinet (IP54)	●
	Two banks condenser	◐

Note:

Capacity based on sub-cooling of 0K,ambient temp of 32°C ,condensing temp of 50°C ,suctiontemp of 100°C ,R404A.

Technical Data

Model	(THR)Capacity										Fan Diam (mm)	No.of Fans	Electrical data							
	High speed					Low speed							Phase current		Phase voltage (V)	Total power(W)		Max current(A)		
	W/K Air Flow					W/K Air Flow							(A)			High speed	Low speed	High speed	Low speed	
	R404A	R507A	R448A	R449A	m³/h	R404A	R507A	R448A	R449A	m³/h			High speed*	Low speed						
Standard condensers																				
WRC098	9840	9604	8758	8758	44244	8360	8159	7440	7673	37620	800	2	4	2.3	380-3	4000	2500	8	4.6	
WRC112	11210	10941	9977	9977	40890	9190	8969	8179	8179	30384	800	2	4	2.3	380-3	4000	2500	8	4.6	
WRC119	11860	11575	10555	10555	38232	9610	9379	8553	8553	28008	800	2	4	2.3	380-3	4000	2500	8	4.6	
WRC123	12310	12015	10956	10956	36036	9850	9614	8767	8767	26136	800	2	4	2.3	380-3	4000	2500	8	4.6	
WRC147	14750	14396	13128	13128	66384	12540	12239	11161	11161	56412	800	3	4	2.3	380-3	6000	3750	12	6.9	
WRC167	16740	16338	14899	14899	61344	13730	13400	12220	12220	45576	800	3	4	2.3	380-3	6000	3750	12	6.9	
WRC178	17760	17334	15806	15806	56628	14390	14045	12807	12807	41472	800	3	4	2.3	380-3	6000	3750	12	6.9	
WRC185	18460	18017	16429	16429	54036	14770	14416	13145	13145	39168	800	3	4	2.3	380-3	6000	3750	12	6.9	
WRC198	19790	19315	17613	17613	88488	16820	16416	14970	14970	75204	800	4	4	2.3	380-3	8000	5000	16	9.2	
WRC225	22470	21931	19998	19998	81792	18430	17988	16403	16403	69168	800	4	4	2.3	380-3	8000	5000	16	9.2	
WRC240	23970	23395	21333	21333	76500	19420	18954	17284	17284	56016	800	4	4	2.3	380-3	8000	5000	16	9.2	
WRC247	24650	24058	21939	21939	72036	19720	19246	17551	17551	52236	800	4	4	2.3	380-3	8000	5000	16	9.2	
WRC297	29710	28997	26442	26442	95616	24070	23492	21422	21422	70020	800	5	4	2.3	380-3	10000	6250	20	11.5	
WRC307	30690	29953	27314	27314	90036	24550	23960	21850	21850	65688	800	5	4	2.3	380-3	10000	6250	20	11.5	
Low noise condensers																				
WRC098LN	8430	8228	7503	7503	33912	7570	7389	6737	6737	26784	800	2	2.4	1.5	380-3	2100	1540	4.8	3	
WRC112LN	9490	9262	8446	8446	31536	8190	7993	7289	7289	24660	800	2	2.4	1.5	380-3	2100	1540	4.8	3	
WRC119LN	9880	9643	8793	8793	29340	8410	8208	7485	7485	22572	800	2	2.4	1.5	380-3	2100	1540	4.8	3	
WRC123LN	9990	9750	8891	8891	27504	8380	8179	7458	7458	20916	800	2	2.4	1.5	380-3	2100	1540	4.8	3	
WRC147LN	12640	12337	11250	11250	50868	11350	11078	10102	10102	40176	800	3	2.4	1.5	380-3	3150	2310	7.2	4.5	
WRC167LN	14220	13879	12656	12656	47304	12270	11976	10920	10920	36972	800	3	2.4	1.5	380-3	3150	2310	7.2	4.5	
WRC178LN	14860	14503	13225	13225	44028	12640	12336	11250	11250	33876	800	3	2.4	1.5	380-3	3150	2310	7.2	4.5	
WRC185LN	15010	14650	13359	13359	41256	12600	12298	11214	11214	31392	800	3	2.4	1.5	380-3	3150	2310	7.2	4.5	
WRC198LN	17060	16651	15183	15183	67824	15320	14953	13635	13635	53568	800	4	2.4	1.5	380-3	4200	3080	9.6	6	
WRC225LN	19000	18544	16910	16910	63072	16400	16006	14596	14596	43920	800	4	2.4	1.5	380-3	4200	3080	9.6	6	
WRC240LN	19790	19315	17613	17613	58680	16840	16436	14988	14988	4514	800	4	2.4	1.5	380-3	4200	3080	9.6	6	
WRC247LN	19990	19510	17791	17791	55008	16780	16377	14934	14934	41832	800	4	2.4	1.5	380-3	4200	3080	9.6	6	
WRC297LN	24730	24136	22010	22010	73368	21040	20535	18726	18726	56448	800	5	2.4	1.5	380-3	5250	3850	12	7.5	
WRC307LN	25010	24410	22259	22259	68796	20990	20486	18681	18681	52344	800	5	2.4	1.5	380-3	5250	3850	12	7.5	

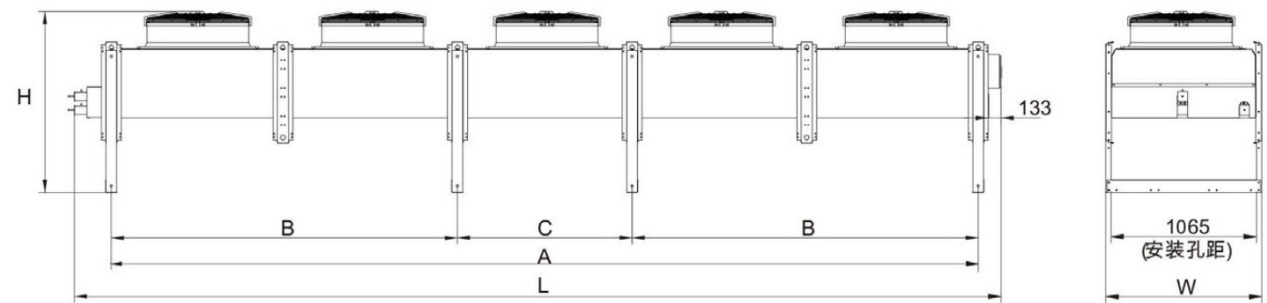
- Standard condensers:*High speed at 880rpm,Low speed at 660rpm.
 - Low noise condensers:High speed at 680rpm,Low speed at 530rpm.
 - Capacity: Data are based on sub cooling of oK, ambient temperature of 32°C , condensing temperature of 50°C and suction temperature of 100°C .
 - For the other requirements of ambienttemperature and sub cooling, please refer to the correction values of this handbook Except the listed corection.
- values,other parameters have slight effect on capacity.The temperature difference listed in the table indicates saturated liquid temperature of condenser outlet minus air temperature of inlet(ambien temperature).The capacity is the maximum valve when all fans are operaing.
- Input power and current values: The values listed represent the maximum power and current that may occur in external rotor motors. Actual values may vary depending on factors such as supply voltage, condenser placement, and fin cleanliness, but generally will not exceed the maximum values listed.

Dimensions

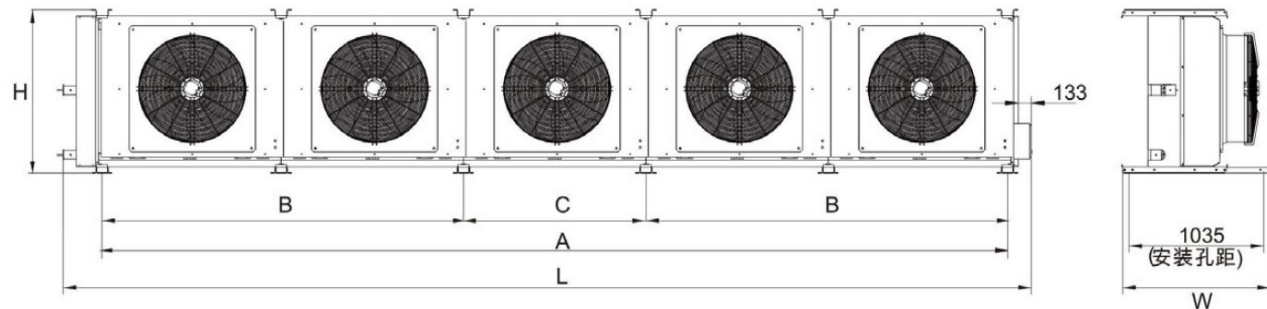
Model	Dimensions						Transport volume (m³)	weight(kg)	
	L	W	H	A	B	C		Net weight	w/packaging
Single row top ventilation condensers									
WRC098	3260	1250	1410	2750	-	-	6.7	410	440
WRC112	3260	1250	1410	2750	-	-	6.7	430	460
WRC119	3260	1250	1410	2750	-	-	6.7	460	490
WRC123	3260	1250	1410	2750	-	-	6.7	500	530
WRC147	4660	1250	1410	4150	2775	1375	8.7	560	600
WRC167	4660	1250	1410	4150	2775	1375	8.7	610	650
WRC178	4660	1250	1410	4150	2775	1375	8.7	660	700
WRC185	4660	1250	1410	4150	2775	1375	8.7	710	750
WRC198	6068	1250	1410	5550	2775	-	11.7	740	800
WRC225	6068	1250	1410	5550	2775	-	11.7	820	880
WRC240	6068	1250	1410	5550	2775	-	11.7	890	950
WRC247	6068	1250	1410	5550	2775	-	11.7	960	1020
WRC297	7469	1250	1410	6950	2775	1400	13.7	1130	1200
WRC307	7469	1250	1410	6950	2775	1400	13.7	1210	1290
Single row side ventilation condensers									
WRC098LN	3260	1136	1250	2750	-	-	6.7	410	440
WRC112LN	3260	1136	1250	2750	-	-	6.7	430	460
WRC119LN	3260	1136	1250	2750	-	-	6.7	460	490
WRC123LN	3260	1136	1250	2750	-	-	6.7	500	530
WRC147LN	4660	1136	1250	4150	2775	1375	8.7	560	600
WRC167LN	4660	1136	1250	4150	2775	1375	8.7	610	650
WRC178LN	4660	1136	1250	4150	2775	1375	8.7	660	700
WRC185LN	4660	1136	1250	4150	2775	1375	8.7	710	750
WRC198LN	6068	1136	1250	5550	2775	-	11.7	740	800
WRC225LN	6068	1136	1250	5550	2775	-	11.7	820	880
WRC240LN	6068	1136	1250	5550	2775	-	11.7	890	950
WRC247LN	6068	1136	1250	5550	2775	-	11.7	960	1020
WRC297LN	7469	1136	1250	6950	2775	1400	13.7	1130	1200
WRC307LN	7469	1136	1250	6950	2775	1400	13.7	1210	1290

Correction Factors

► Single row top ventilation condensers



► Single row side ventilation condensers



Correction Factors

(K1) Ambient correction factors							
Ambient temperature	15	20	25	30	35	40	45
Factor	0.979	0.986	0.992	0.998	1.003	1.008	1.013

(K2) Altitude correction factors							
Altitude	0	600	800	1000	1200	1400	1600
Factor	1	1.04	1.06	1.075	1.09	1.11	1.12

(K3) Internal sub-cooling correction factors					
Subcooling	Condensing temperature difference KTD				
	3	5	10	15	20
2	0.966	0.976	0.989	0.994	0.996
4	-	0.934	0.975	0.986	0.99
6	-	-	0.946	0.972	0.98
8	-	-	0.898	0.96	0.966

Internal sub-cooling refers to using standard coil design to reach certain sub-cooling degree.

(K4) Fin correction factors	Aluminum	1.00	Blue fin	0.995
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Required condenser standard THR = $K2 / K1 \times K3 \times K4$ × Required capacity

Other Data

Model	Coil data					Noise data					
	Rows	F.P.I	Refrigeration line			*High speed			*Low speed		
			Charge	Connection		Sound power level LWA dBA	Sound pressure level LpA dBA 3m	Noise ratio	Sound power level LwA dBA	Sound pressure level LpA dBA 3m	Noise ratio
			R404A kg**	Inlet	Outlet						
Standard condensers											
WRC098	3	12	29	54.4	54.4	86	69	65	81	64	61
WRC112	4	12	37	54.4	54.4						
WRC119	5	12	45	54.4	54.4						
WRC123	6	12	53	54.4	54.4						
WRC147	3	12	43	66.7	66.7	88	71	67	83	64	63
WRC167	4	12	55	66.7	66.7						
WRC178	5	12	67	66.7	66.7						
WRC185	6	12	79	66.7	66.7						
WRC198	3	12	54	66.7	66.7	89	72	69	84	67	65
WRC225	4	12	70	66.7	66.7						
WRC240	5	12	86	66.7	66.7						
WRC247	6	12	102	66.7	66.7						
WRC297	5	12	106	66.7	66.7	90	73	69	85	68	65
WRC307	6	12	126	66.7	66.7						
Low noise condensers											
WRC098LN	3	12	12	54.4	54.4	79	62	58	76	59	55
WRC112LN	4	12	12	54.4	54.4						
WRC119LN	5	12	12	54.4	54.4						
WRC123LN	6	12	12	54.4	54.4						
WRC147LN	3	12	12	66.7	66.7	81	63	60	78	60	57
WRC167LN	4	12	12	66.7	66.7						
WRC178LN	5	12	12	66.7	66.7						
WRC185LN	6	12	12	66.7	66.7						
WRC198LN	3	12	12	66.7	66.7	82	65	61	79	62	58
WRC225LN	4	12	12	66.7	66.7						
WRC240LN	5	12	12	66.7	66.7						
WRC247LN	6	12	12	66.7	66.7						
WRC297LN	5	12	12	66.7	66.7	83	66	62	80	63	59
WRC307LN	6	12	12	66.7	66.7						

- Standard condensers: *High speed at 880rpm, Low speed at 660rpm.
- Low noise condensers: High speed at 680rpm, Low speed at 530rpm.
- Noise The noise values are experiment meets ISO9614-1(soudn intensity) and AS1217.7-1985(experiment. The sound pressure level data are average tested at the intersection offan plane and reflection plane 3 meters from axis. The values may vary according to site sound reflection.
- The listed refrigerant charge is: at an ambient temperature of 32°C , during the pumpdown cycle, the total refrigerant quantity is composed of 80% R404A liquid and 20% R404A gas by volume within the coil.

Remote Condensers MXW Series



Nomenclature

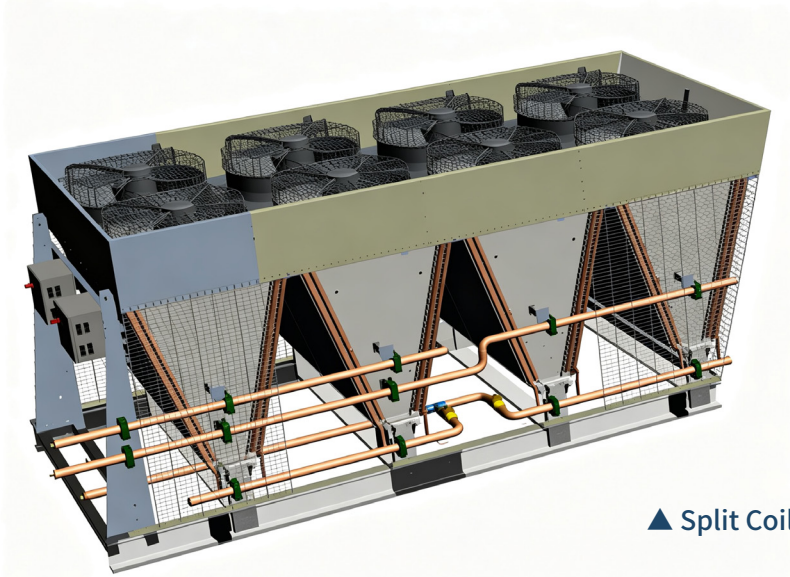
MXW ① **2V** ② **3R** ③ **-S** ④

- | | |
|---|----------------------------------|
| ① MXW:Remote Condensers MXW Series | ③ Coil rows:
3 Rows/4 Rows |
| ② V block Coil:
2V Block/3V Block /4V Block/5V Block/6V Block/7V Block | ④ Heat reclaim:Split Coil Option |

Advantages

Sleek design, strong performance

Intersecting original design and innovation technology, Muller MXW is the latest range of Muller air cooled remote condensers delivering a compact footprint and impressive all-round performance.



▲ Split Coil option shown above

Thanks to its modular design and construction, Muller MXW is the perfect remote condenser choice for all direct expansion application projects.

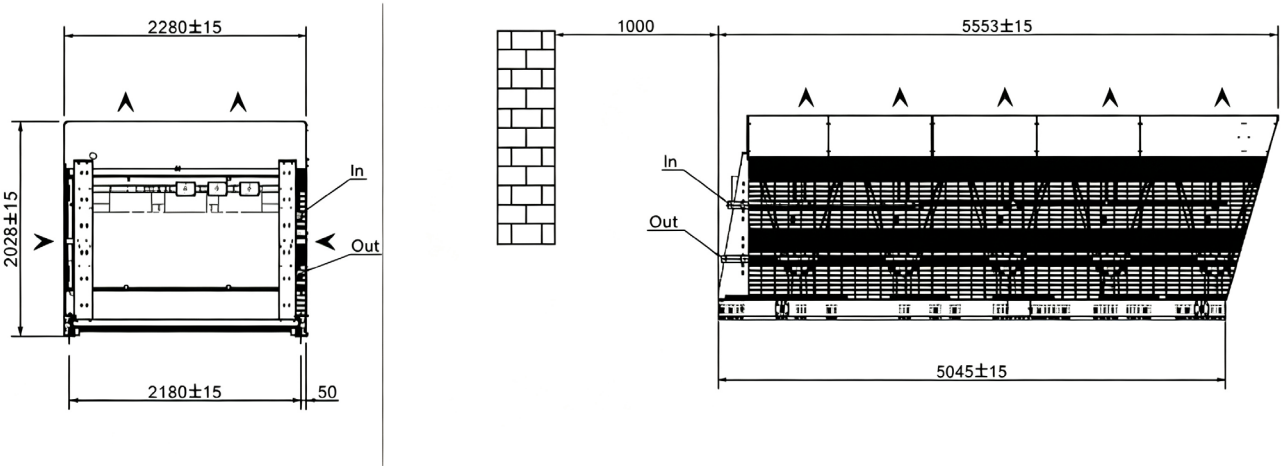
Description

- The Muller MXW range of air-cooled remote condensers offer:
- Optimised footprint and various ventilation solutions for enhanced suitability in urban environments.
 - Modular V-shape copper / aluminium coil construction for ease of installation and commissioning in confined spaces, even with different refrigerants.
 - Unique sound wall and EC fan motors delivering up to 1- db(A) sound reduction in the horizontal plane.
 - Premium construction featuring galvanised steel, with crisp white powdered polyester finish panels; and lateral anti-intrusive grilles to protect against external impacts.
 - Superior fin coils, producing increased efficiency and charge reduction as a result of 3/8 rifle bore copper tube coils; while blue coated aluminium fins offer high corrosion resistance
 - User friendly removable coils allowing ease of access for maintenance or replacement.
 - Split configuration options available upon request.

Performance Data

Model	R404A	R407F	R134a	R404A	R407F	R134a	R404A	R407F	R134a
	WATTS/K			WATTS/K			WATTS/K		
	MAX SPEED (1100 RPM)			680 RPM			440 RPM		
MXW-1V-3R	10,180	9,060	9,773	7,748	6,896	7,438	5,725	5,095	5,496
MXW-1V-4R	11,875	10,569	11,400	8,643	7,692	8,297	6,088	5,418	5,844
MXW-2V-2R	20,360	18,120	19,546	15,496	13,791	14,876	11,450	10,191	10,992
MXW-2V-4R	24,384	21,702	23,409	17,286	15,385	16,595	12,176	10,837	11,689
MXW-3V-3R	30,540	27,181	29,318	23,244	20,687	22,314	17,175	15,286	16,488
MXW-3V-4R	36,576	32,553	35,113	25,929	23,077	24,892	18,264	16,255	17,533
MXW-4V-3R	40,720	36,241	39,091	30,992	27,583	29,752	22,900	20,381	21,984
MXW-4V-4R	48,768	43,404	46,817	34,572	30,769	33,190	24,352	21,673	23,378
MXW-5V-4R	50,900	45,301	48,864	38,740	34,479	37,190	28,625	25,476	27,480
MXW-5V-6R	60,960	54,254	58,522	43,215	38,461	41,346	30,440	27,092	29,222
MXW-6V-3R	61,080	54,361	58,637	46,488	41,374	44,628	34,350	30,570	32,976
MXW-6V-4R	73,152	65,105	70,226	51,598	46,154	49,784	36,528	32,512	35,067
MXW-7V-3R	71,260	63,421	68,410	54,236	48,270	52,067	40,075	35,667	38,472
MXW-7V-4R	85,344	75,956	81,930	60,501	53,846	58,081	42,616	37,928	40,911

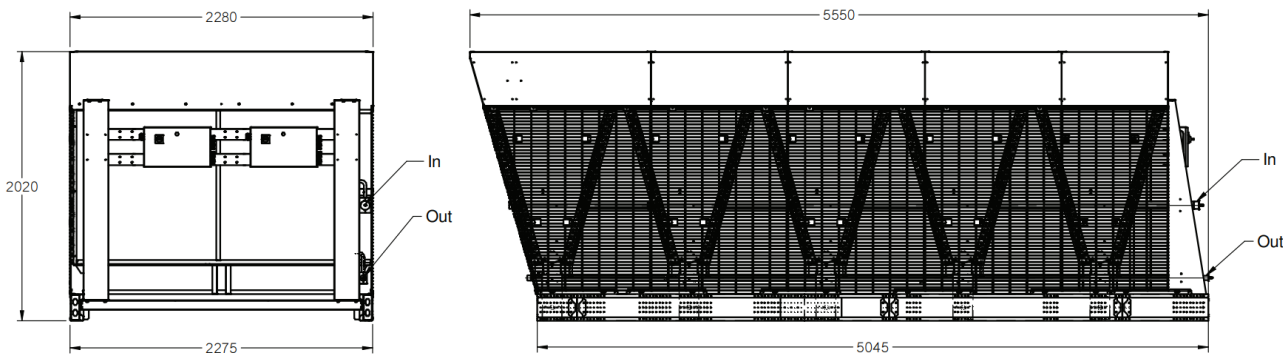
Physical Data



Physical Data

Model	NUMBER OF FANS	WIDTH (mm)	HEIGHT (mm)	LENGTH (mm)	GAS INLET (inch)	LIQUID OUTLET (inch)	DRY WEIGHT (kg)
MXW-1V-3R	2	2,280	2,020	1,360	2-1/8"	2-1/8"	580
MXW-1V-4R	2	2,280	2,020	1,430	2-1/8"	2-1/8"	650
MXW-2V-3R	4	2,280	2,020	2,460	2-1/8"	2-1/8"	860
MXW-2V-4R	4	2,280	2,020	2,460	2-1/8"	2-1/8"	970
MXW-3V-3R	6	2,280	2,020	3,490	2-1/8"	2-1/8"	1,140
MXW-3V-4R	6	2,280	2,020	3,490	2-1/8"	2-1/8"	1,290
MXW-4V-3R	8	2,280	2,020	4,520	2-5/8"	2-5/8"	1,420
MXW-4V-4R	8	2,280	2,020	4,520	2-5/8"	2-5/8"	1,610
MXW-5V-4R	10	2,280	2,020	5,550	2-5/8"	2-5/8"	1,700
MXW-5V-6R	10	2,280	2,020	5,550	2-5/8"	2-5/8"	1,930
MXW-6V-3R	12	2,280	2,020	6,580	2-5/8"	2-5/8"	1,980
MXW-6V-4R	12	2,280	2,020	6,580	2-5/8"	2-5/8"	2,250
MXW-7V-3R	14	2,280	2,020	7,610	2-5/8"	2-5/8"	2,260
MXW-7V-4R	14	2,280	2,020	7,610	2-5/8"	2-5/8"	2,570

In=1"1/8 - Out=2"1/8; L'=5045



Note:
Images show unit with optional finger guard included.

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