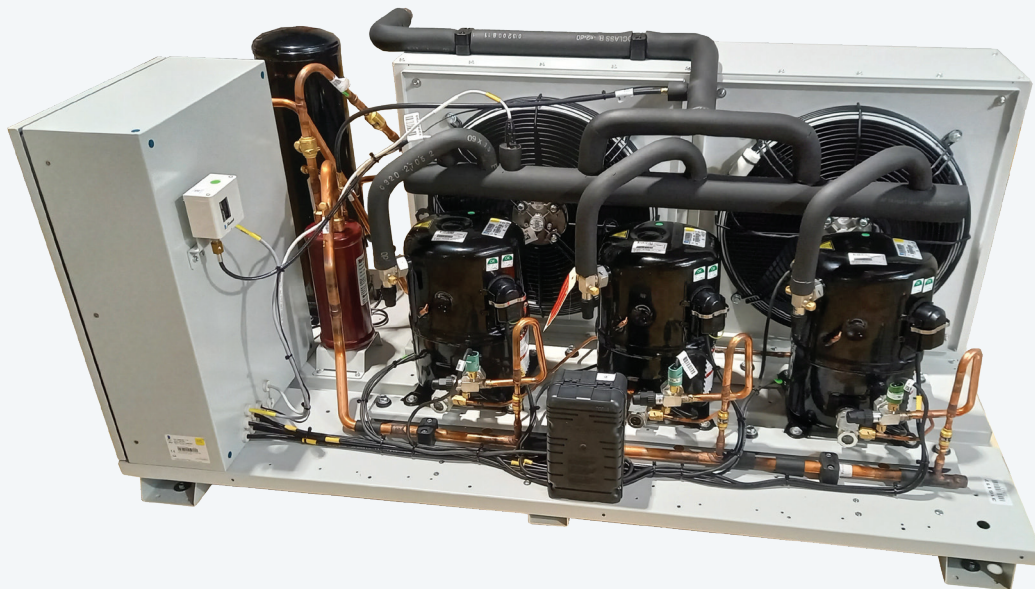




Tecumseh

TRIO-QUATTRO RACK

FOR POSITIVE COLD APPLICATION



FEATURES

SUPPLY SEVERAL EVAPORATION UNITS THROUGH CAPACITY MODULATION

- 3 or 4 compressor stages

VERSATILITY

- Available with and without condenser
- For R-452A/R-448A/R449A and R-134a/R-513A

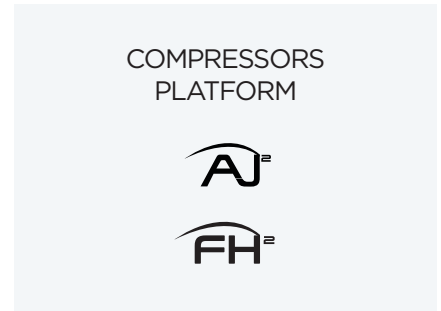
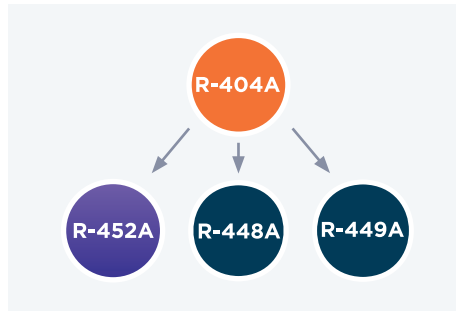
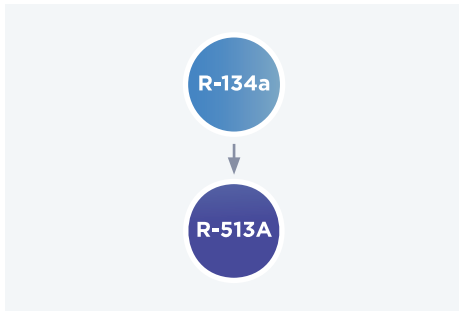
EASY TO INSTALL

- Regulation Oil manifold integrated
- Housing available

ROBUST

- With long lasting and reliable AJ2 and FH2 Tecumseh reciprocating compressors

AUTHORIZED REFRIGERANTS



Please refer to Tecumseh's guidelines for using R-452A and R-448A/R449A and to the selection software in order to know energy performances datas.

RACKS WITH CAPACITY MODULATION FOR MULTIPLE & POSITIVE APPLICATIONS



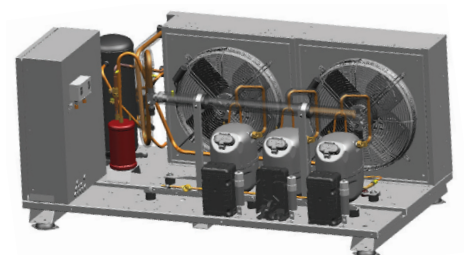
3 OR 4 COMPRESSORS AND STAGES

- Capacity modulation
- Adapted for multiple indoor units
- AJ² and FH² robust compressors



MICRO-CHANNEL CONDENSER WITH VARIABLE SPEED FANS (D TYPE)

- Efficiency
- Reduced refrigerant charge



REFRIGERANTS

- R-134a/R-513A
- R-452A/R-448A/R-449A



OIL SEPARATOR AND BALANCING MANAGEMENT

- simple and reliable design
- Ease of installation



HOUSINGS

- Available for Rack with Control box and condenser (D type)
- Compact



NEW CONTROLLER DIXELL XC660D:

- Manages Compressor staging and rotation
- Ensures operating safety
- Modbus communication protocol
- Overheating monitoring
- Liquid migration protection function when compressors stopped



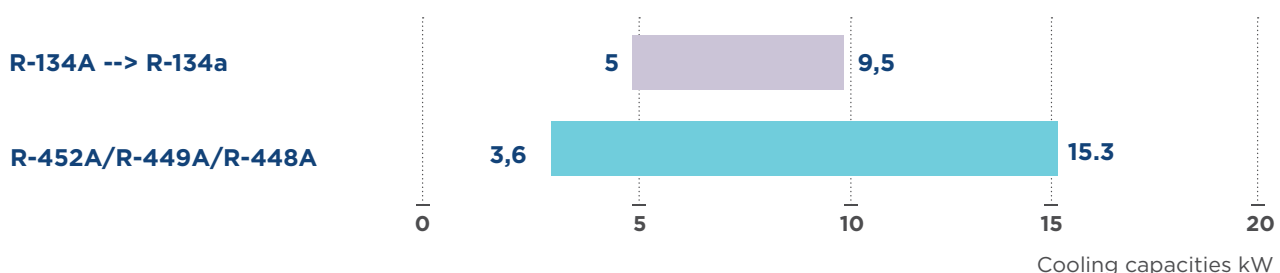
SEVERAL CHOICES

- With Control box and condenser (D type)
- With Control box and without condenser for remote application (E type)
- Without control box nor condenser for remote application and to let controller choice (C type)



COOLING CAPACITY RANGE

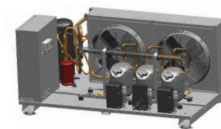
MODELS WITH CONTROL BOX & WITH CONDENSER (D TYPE)



*Cond EN13215: +32°C amb T°, -10°C cond T°, 20K RG, 3K SC

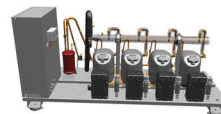
TECHNICAL DATA

MODELS WITH CONTROL BOX & WITH CONDENSER (D TYPE)



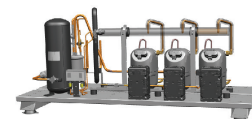
Product designation	Compressor number	Cooling cap.W 32° amb.T°, 10K superheat, 3K subcool, Evaporation temperature °C:							*Cond EN13215: +32°C amb T°, -10°C cond T°, 20K RG, 3K SC		Voltage	I max A @220-1°	I max A @400V-3°+N			Acoustic pressure dB(A) 10m free field	Liquid receiver volume l	Compressor oil volume cm3	Separator oil volume cm3	Suction inlet Ø Inch	Discharge outlet Ø Inch
		-20°	-15°	-10°	-5°	0°	+5°	+10°	Perf. (W)	COP (W/W)			L1	L2	L3						
R134A																					
CAJ-TR4524Y	3	2324	3185	4186	5342	6663	8153	9812	4478	1.70	230-1°/ 400V-3°+N°	21.4	6.4	7.9	7.1	12	6	475	445	(3/4")	1/2
CAJ-QT4532Y	4	3082	3996	5129	6508	8163	10121	12413	5326	1.73		28.8	13.2	8.1	7.6	13	6	475	445	(3/4")	1/2
CAJ-TR4539Y	3	2644	3659	4875	6314	7996	9939	12158	5200	1.82		30	9.0	11.3	9.7	21	9.5	475	445	7/8"	1/2
CAJ-QT4552Y	4	3472	4792	6361	8204	10340	12785	15549	6794	1.84		TBC*	18.0	11.3	10.0	14	9.5	475	445	7/8"	1/2
FH-TR4554Y	3	3829	5248	6927	8883	11130	13676	16528	7393	2.37	400V-3°+N	-	9.8	12	10.1	21	12	1140	445	1"1/8	5/8
FH-TR4575Y	3	5026	6864	9014	11495	14317	17488	21010	9638	2.36		-	13.2	15.4	13.5	21	12	1140	445	1"1/8	5/8
R452																					
CAJ-TR4524Z	3	1981	2581	3276	4074	4985	6015	7174	3615	1.66	230-1°/ 400V-3°+N°	18.3	5.5	6.6	6.2	11	6	475	445	5/8"	5/8"
CAJ-QT4532Z	4	2642	3419	4309	5319	6460	7740	9176	4760	1.67		24.1	11.0	6.6	6.5	11	6	475	445	5/8"	5/8"
CAJ-TR4539Z	3	2880	3800	4837	5996	7282	8711	10311	5366	1.75		28.8	9.0	10.1	9.7	12	6	475	445	3/4"	3/4"
CAJ-QT4552Z	4	4255	5600	7154	8926	10923	13149	15615	7872	1.90		39.2	18.0	11.3	10.0	21	9.5	475	445	3/4"	3/4"
FH-TR4572Z	3	4942	6679	8665	10911	13429	16232	19343	9538	2.03	400V-3°+N	15.2	12.9	15.2	13.3	12	9.5	1140	445	7/8"	7/8"
FH-TR4593Z	3	6525	8632	11044	13780	16853	20270	24039	12146	2.10		16,5	14.2	16.5	14.6	20	12	1140	445	1"1/8	1"1/8
FH-TR4612Z	3	8303	10924	13890	17210	20879	24875	29169	15331	2.05		23,9	20.8	23.9	21.2	21	12	1140	445	1"1/8	1"1/9

MODELS WITH CONTROL BOX & WITHOUT CONDENSER (E TYPE)



Product designation	Compressor number	Cooling cap.W 45° cond T°, 10K superheat, 3K subcool, Evaporation temperature °C							Perf EN12900 +5°C evap T° / 50°C cond T° / RG 20°C / SC OK		Voltage	I max A @220-1°	I max A @400V-3°+N			Acoustic pressure dB(A) 10m free field	Compressor oil volume cm3	Separator oil volume cm3	Suction inlet connection Inch	Discharge outlet connection Inch
		-20°	-15°	-10°	-5°	0°	+5°	+10°	Perf. (W)	COP (W/W)			L1	L2	L3					
R134A																				
CAJ-TR4524Y	3	1383	1995	2829	3780	4917	6270	7869	5649	0.74	230-1°/ 400V-3°+N°	TBC*	6.4	6.4	7.1	38	475	445	3/4"	1/2
CAJ-QT4532Y	4	1844	2660	3772	5040	6556	8360	10492	7532	0.55		TBC*	13.2	6.6	7.6	39	475	445	3/4"	1/2
CAJ-TR4539Y	3	2025	2904	4107	5493	7164	9165	11550	8328	0.80		TBC*	9.0	9.0	9.7	41	475	445	7/8"	1/2
CAJ-QT4552Y	4	2700	3872	5476	7324	9552	12220	15400	11104	0.60		TBC*	18.0	9.0	10.0	38	475	445	7/8"	1/2
FH-TR4554Y	4	2796	4038	5733	7680	10035	12858	16230	11553	0.95	400V-3°+N	TBC*	9.8	9.8	10.1	43	1140	445	1"1/8	5/8
FH-TR4575Y	4	3738	5436	7749	10410	13620	17463	22032	15714	0.96		TBC*	13.2	13.2	13.5	45	1140	445	1"1/8	5/8
R452																				
CAJ-TR4524Z	3	1803	2370	3171	4065	5133	6411	7935	5649	0.73	230-1°/ 400V-3°+N°	17.2	5.5	5.5	6.2	35	475	445	5/8"	1/2
CAJ-QT4532Z	4	2404	3160	4228	5420	6844	8548	10580	7532	0.55		23.0	11.0	5.5	6.5	36	475	445	5/8"	1/2
CAJ-TR4539Z	3	2712	3666	4998	6486	8262	10365	12849	9105	0.79		27.7	9.0	9.0	9.7	38	475	445	3/4"	1/2
CAJ-QT4552Z	4	3616	4888	6664	8648	11016	13820	17132	12140	0.59		37.0	18.0	9.0	10.0	39	475	445	3/4"	1/2
FH-TR4572Z	3	3948	5673	8028	10695	13893	17712	22260	15417	0.87	400V-3°+N	-	12.9	12.9	13.3	45	1140	445	7/8"	5/8
FH-TR4596Z	3	5421	7443	10218	13311	16995	21375	26568	18780	0.88		-	14.2	14.2	14.6	47	1140	445	1"1/8	5/8
FH-TR4612Z	3	7122	9828	13485	17505	22242	27828	34401	24576	0.88			20.8	20.8	21.2	50	1140	445	1"1/8	5/8

*TBC= to be confirmed



MODELS WITHOUT CONTROL BOX NOR CONDENSER (C TYPE)

Product designation	Compressor number	Cooling cap. W 45°C cond T°, 10K superheat, 3K subcool, Evaporation temperature °C:								Perf EN12900 +5°C evap T° / 50°C cond T° / RG 20°C / SC 0K	COP (W/W)	Voltage	Heater I max A @220-1~	Compressor I max A @400V-3~+N			Acoustic pressure dB(A) 10m free field	Liquid receiver volume l	Compressor oil volume cm3	Separator oil volume cm3	Suction inlet Ø inch	Discharge outlet Ø inch	Liquid line Ø inch
		-20°	-15°	-10°	-5°	0°	+5°	+10°	Perf. (W)					L1	L2	L3							
R134A																							
TAJ-TR9530X	3	1227	1659	2271	2982	3852	4914	6195	4449	0.83		400V 3~50Hz / 440V 3~60 Hz"	0,3	7,6	7,6	7,6	34	9,5	475	445	5/8	1/2	1/2
TAJ-QT9552X	4	1844	2660	3772	5040	6556	8360	10492	7532	0.59			0,3	11,5	11,5	11,5	37	12	475	445	3/4	1/2	1/2
TAJ-TR4557X	3	2301	3216	4449	5832	7473	9417	11703	8532	0.83			0,3	14,9	14,9	14,9	41	12	475	445	7/8	5/8	5/8
TAJ-QT4576X	4	3068	4288	5932	7776	9964	12556	15604	11376	0.62			0,3	19,8	19,8	19,8	43	12	475	445	7/8	5/8	5/8
R452																							
TAJ-TR9530X	3	2301	3006	3996	5091	6396	7947	9792	7047	0.72		400V 3~50Hz / 440V 3~60 Hz"	0,3	7,6	7,6	7,6	34	9,5	475	445	5/8	1/2	1/2
TAJ-QT9552X	4	3464	4692	6404	8320	10608	13340	16588	11720	0.56			0,3	11,5	11,5	11,5	37	12	475	445	3/4	1/2	1/2
TAJ-TR4557X	3	4134	5460	7290	9282	11628	14388	17628	12771	0.72			0,3	14,9	14,9	14,9	41	12	475	445	7/8	5/8	5/8
TAJ-QT4576X	4	5512	7280	9720	12376	15504	19184	23504	17028	0.54			0,3	19,8	19,8	19,8	43	12	475	445	7/8	5/8	5/8

DIMENSIONS & WEIGHT

MODELS WITH CONDENSER (D TYPE)

Product designation	Ø fan mm	Dimensions without housing			Net weight	
		Lenght mm	Depth mm	Height mm	Kg	Housing Kg
R134a						
CAJ-TR4524Y	350	1205	850	760	163	25
CAJ-QT4532Y	350	1205	850	760	185	25
CAJ-TR4539Y	350	1570	850	771	178	30
CAJ-QT4552Y	350	1570	850	771	200	30
FH-TR4554Y	420	1570	850	771	203	30
FH-TR4575Y	420	1570	850	771	211	30
R452						
CAJ-TR4524Z	350	1205	850	760	145	25
CAJ-QT4532Z	350	1205	850	760	160	25
CAJ-TR4539Z	350	1205	850	760	163	25
CAJ-QT4552Z	350	1570	850	771	197	30
FH-TR4572Z	420	1570	850	771	206	30
FH-TR4593Z	420	1570	850	1011	229	NA
FH-TR4612Z	420	1570	850	1011	238	NA

MODELS WITHOUT CONDENSER (E TYPE)

Product designation	Ø fan mm	Dimensions without housing			Net weight	
		Lenght mm	Depth mm	Height mm	Kg	Housing Kg
R134a						
CAJ-TR4524Y	NA	1189	670	735	105	NA
CAJ-QT4532Y	NA	1189	670	735	120	NA
CAJ-TR4539Y	NA	1564	673	735	145	NA
CAJ-QT4552Y	NA	1564	673	735	168	NA
FH-TR4554Y	NA	1564	673	735	168	NA
FH-TR4575Y	NA	1564	673	735	172	NA
R452						
CAJ-TR4524Z	NA	1189	670	735	105	NA
CAJ-QT4532Z	NA	1189	670	735	120	NA
CAJ-TR4539Z	NA	1200	670	735	123	NA
CAJ-QT4552Z	NA	1564	673	735	165	NA
FH-TR4572Z	NA	1564	673	735	166	NA
FH-TR4596Z	NA	1564	673	735	169	NA
FH-TR4612Z	NA	1564	673	735	173	NA

MODELS WITHOUT CONTROL BOX NOR CONDENSER (C TYPE)

Product designation	Ø fan mm	Dimensions without housing			Net weight	
		Lenght mm	Depth mm	Height mm	Kg	Housing Kg
R134a & R452						
TAJ-TR9530X	NA	1564	593	740	160	NA
TAJ-QT9552X	NA	1564	593	740	190	NA
TAJ-TR4557X	NA	1564	593	740	170	NA
TAJ-QT4576X	NA	1564	593	740	190	NA