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YAROSLAVSKIY
COMPRESSOR

YAROSLAVSKIY COMPRESSOR

The Authorities of JSC «Yaroslavskiy compressor» take the responsibility to meet market needs in refrigeration by the development, production and technical service of the condensing units, the consumer qualities of which comply or exceed the requirements and expectations of the customers.

I wish great success and happiness to everybody – present and future our partners.

Your sincerely,
General director

Sergey Mikhaylov

CONTENTS

GENERAL INFORMATION

CE

DESIGNATION OF «P» TYPE COMPRESSORS

The letters and digits designating the type of compressors produced by " Yaroslavskiy compressor " technology have the following meaning

Example	R	G	P	10	A	B
	1	2	3	4	5	6

1.Country of manufacturer:
R - Russia

2. Designation of refrigerant type:
Letter absent - R22
G - R134a
H - R600a
M – R404A / R507

3. Compressor type according to cylinder displacement:
P-cylinder displacement =10...18cm3

4. Two-digit number, corresponding to cylinder displacement (in cm3)

5. Design (see table 1)

6. Electric motor performance (see table 2)

Table 1

Letter	Use	Starting torque	Cooling
A	Low back pressure refrigerating equipment	small	static
B			oil cooler
C			fan
E		large	oil cooler
F			fan
P	High medium back pressure refrigerating equipment	small	
T		large	
U	Air conditioning		

Table 2

Letter	Voltage/Frequency	Efficiency	Run capacitor
A	220V/50Hz or 230V/60Hz	medium	unavailable
B		standard	optional
M	220V/50Hz or 230V/60Hz or 380V/50Hz	high	permanent
N	220V/50Hz or 230V/60Hz	medium	

CONDENSING UNITS DESIGNATION

UNIT

X X X	XXXX	X	(X)	XXXXXX	XX	XX	TY
1 2 3	4	5	6	7	8	9	10

1. «B» – designation of cooling method for condenser (air cooling);

2. designation of unit operating mode on the equipment:
«C» – medium temperature, for temperatures in cooled volume from -60C to +8OC
«H» – low temperature, for temperatures in cooled volume from –13OC to -18OC;

3. designation of design peculiarities:
«Э» –unit with shielded compressor

4. nominal refrigerating capacity, W, in unit operating mode (see p.2), specified by GOST 22502-89.

5. «1» – number of power supply phases (not indicated for three-phase supply)

6. «2» – number of electric motor poles (not indicated for four-pole motors).

7. Designation of installed compressor (indicated only for compressors, produced by Yaroslavskiy compressor.

8. Designation of modernisation.

9. Climatic design as per GOST 15150-69 (except for Y2)

10. Technical specification designation

compressors

Mode	Temperature of refrigerant boiling, oC,(t0)	Ambient temperature, oC,(t amb)	Suction gas temperature, oC, (tsuct)	Condensation temperature, oC (tcond)	Temperature of liquid before valve, oC (tliquid)
Medium back pressure GOST 22502	-15	20	20	30	-
Low back pressure GOST 22502	-35	20	20	30	-
HMBP CECOMAF	5	32	32	55	55
LBP CECOMAF	-25	32	32	55	55
HMBP ASHRAE	7,2	35	35	55	46
LBP ASHRAE	-23,3	32	32	55	32

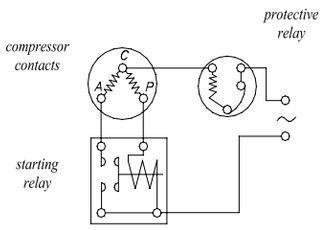
condensing units

Mode	Temperature of refrigerant boiling, OC, (t0)	Ambient temperature, OC, (t amb)	Suction gas temperature, OC, (tsuct)
Medium back pressure GOST22502	-15	20	20
Low back pressure GOST22502	-35	20	20

Start and protection diagrams for compressor motors

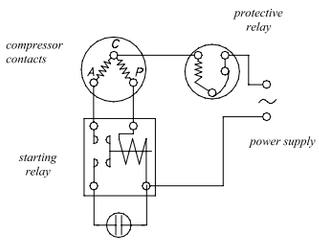
RSIR

Connection of starting winding during start (the current starting relay or posistor is used)



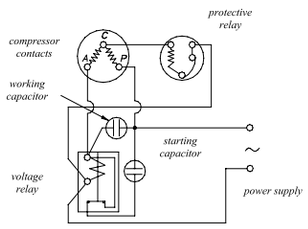
CSIR

Connection of starting winding with starting capacitor during start (the current starting relay is used)



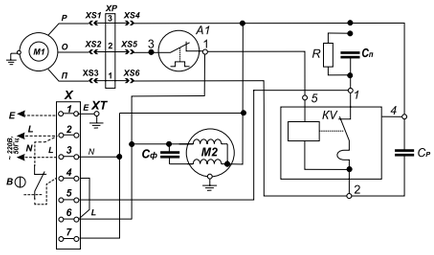
CSR

Constant connection of working capacitor to start winding and connection of starting capacitor during start



Standard circuit diagrams for condensing units

SINGLE PHASE



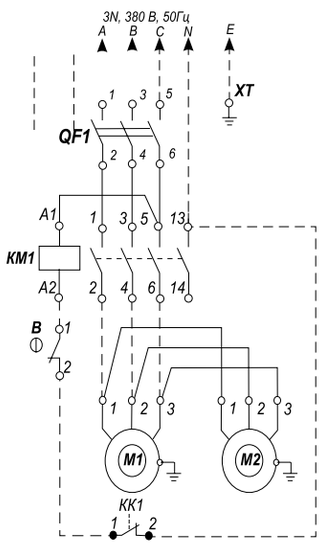
Designation
A1 – Starting relay
KV – Starting voltage relay
M1 – Compressor motor
M2 – Capacitor type fan
X – Terminal block
XT – Earthing connection
R – Resistor

Capacitors:
Cp – run capacitors
Cп – starting capacitor
Cф – phase-shifting capacitor

THREE PHASE

Designation
B – Thermostat (is not supplied by the factory)
KK1 – Thermal relay
M1 – Compressor motor
M2 – Fan

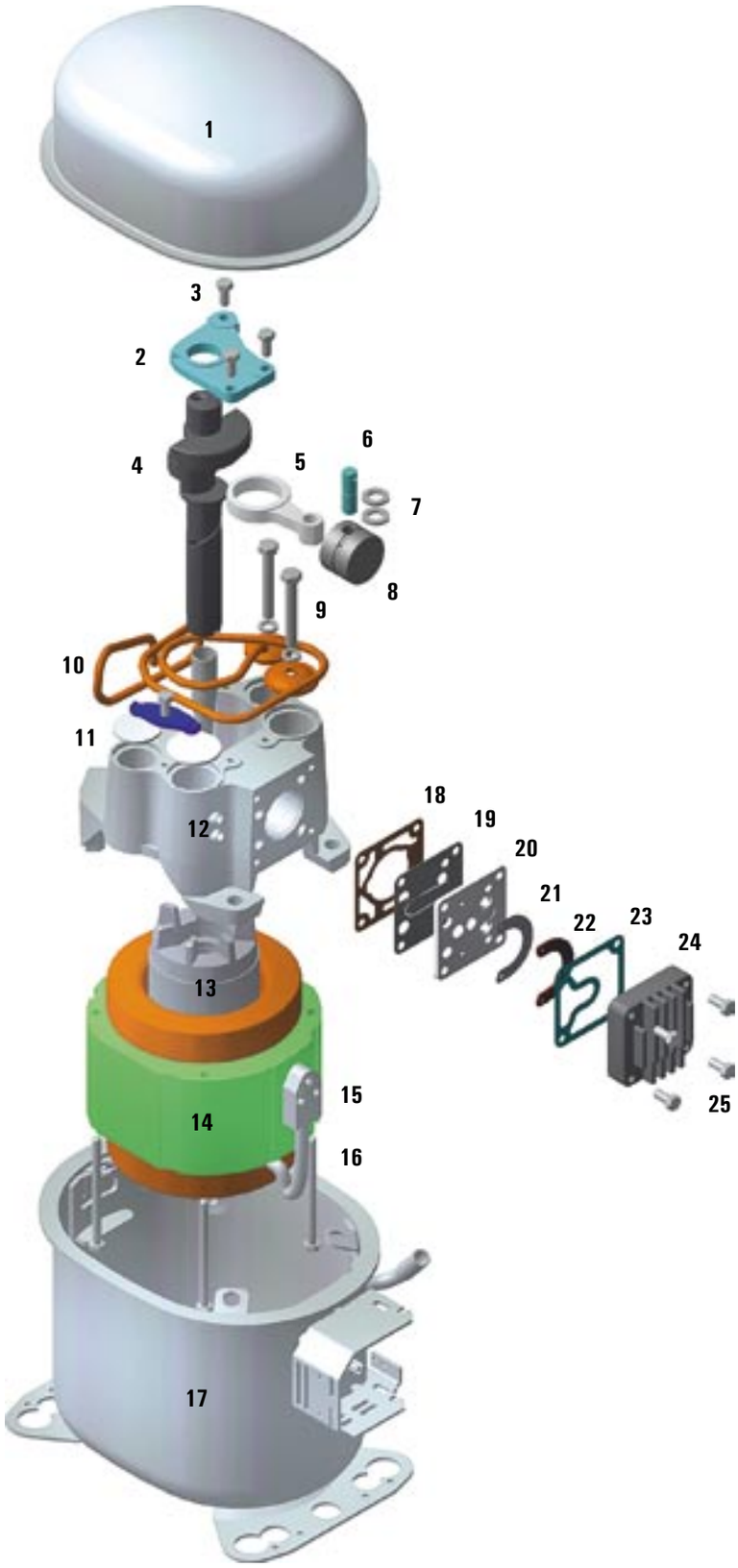
ЩЦ1 – Electrical equipment board
QF1 – Automatic switch
KM1 – Magnetic starter (Uк=220V)
XT – Earthing connection



ATTENTION
Connections shown by a dotted line, and also thermostat B are not supplied by factory and are to be installed by customer in accordance with the given diagram.

Refrigeration compressors of "P" series with displacement from 10 to 18 cm3 and units using them are designed for operation on ozone-safe refrigerants R134a, R404A, R600a and also R22, permitted by Montreal convention till 2030. Field of application: refrigerated showcases and counters, refrigerated cabinets, display cabinets, ice generators, freezing chests and refrigerators, beer coolers, cooling beds, air conditioners, 2 and 3-compartment domestic refrigerators.

1. Cover
2. External bearing
3. External bearing screw
4. Crankshaft
5. Connecting rod
6. Piston pin
7. Washer
8. Piston
9. Muffler screw
10. Discharge tube
11. Bracket
12. Crankcase
13. Rotor
14. Stator
15. Cluster
16. Stator screw
17. Box
18. Valve plate gasket
19. Suction valve leaf
20. Valve plate
21. Discharge valve leaf
22. Valve stroke limiter
23. Cylinder head gasket
24. Cylinder head
25. Cylinder head screw



1. The unit is intended for operation indoors at temperature range from +5ºC to +45ºC.
2. Before mounting the units (packed or not) must be stored in closed store houses in temperature not less than -35ºC and in conditions excluding the penetration of precipitation and direct sun rays. During freight handling it is not allowed to turn units over and to throw them down.
3. Installation, preparation and starting must be performed by qualified personnel, experienced in start-up and adjustment of refrigerating equipment.
4. Before installation the unit with unbroken seals on all valves must be weighted and the result should not differ from the weight, indicated in the passport for more than 0,2kg. The manufacturer accepts claims only in case of seals safety.
5. The unit can be built in refrigerating equipment or installed separately. In both cases the distance between the condenser and the wall (partition, cover, etc) must not be less than 200 mm. The distance to the nearest heating equipment must be more than 2m. The condenser must be well ventilated or the room space should not be less than 20m3 for every 1000W of refrigerating capacity. Do not expose the unit to direct sun rays.
6. The unit must be installed on spring or rubber dampers (are not included in delivered set).
7. Separately installed units must have mesh protection.
8. Before connecting the unit the evaporator and pipe systems must be cleaned from moisture, dirt, oil etc., drained to a dew point not higher than minus 50ºC and evacuated to the residual pressure not more than 1,33kPa (10 mm m.c.). We do not recommend to use pipes longer than 8m.

It is not permitted to:

• entrust the installation, start-up and operation to non qualified personnel;

• start and operate the unit with faulty or not complete electric equipment, without fan unit, not ground or unsafe ground or with unprotected current conductive parts;

• turn on (even for short time) the unit with closed discharge valve (if there is such valve). In order not to damage the compressor the discharge valve must be completely opened before turning the unit on;

• operate the unit having refrigerant leakage (max. permitted refrigerant leakage is 0,5g per year), such unit must be immediately turned off. It is not permitted to smoke and and work with open flame near the unit having refrigerant leakage.

• perform any operations on unit not disconnected from power supply;

• turn on a unit with not protected current conducting control parts; without cover of terminal box;

• evacuate the unit (and the system) with the unit compressor, operate with vacuum even for a short period of time.

• change the operation mode of the unit, misuse the unit;

• turn on and operate the unit without pressure gauge and relay (if such gauges are installed), change the setting of gauge and relay made by the manufacturer.

• overheat the compressor shell and allow its contact with the heat sources;

• operate the unit with moisture content in oil refrigerant mixture more than 15ppm;

• let the refrigerant into the atmosphere;

• work with the open flame and smoke in the room where there is refrigerant.

• perform welding and soldering on the unit (and in the system) without complete removal of refrigerant;

• heat the refrigerant vessel with open flame during charge.

Compressor model	A	D	H	B	C (B)
RGP10AB/CB/EB/FB **RGP12AB/BB/CB/EB/FB**	203	133	Max.size deviation limits +0,1		
			4,9	8,1	8,1
RGP10PB/TB **RGP12PB/TB** **RGP14BB/CB/EB/FB**			6,55	8,1	8,1
RHP16AA				6,1	6,1
RHP10AA, RHP12AA **RHP14AA**			4,9	6,1	6,1
RHP10AA-01	185	115			
RP10TN/TM, **RP12TN/TM, RP13UM** **RP16TN/TM** **RMP12TB, RMP14TB** **RGP18FB/TB/FM/TM**	216	146	6,55	9,7	8,1
RGP10BB, RGP14PB/TB **RGP16BB/CB/EB/FB/TB** **RGP16TM,RMP10FB/TB** **RMP12FB, RMP14FB/TM/FM**			6,55	8,1	8,1

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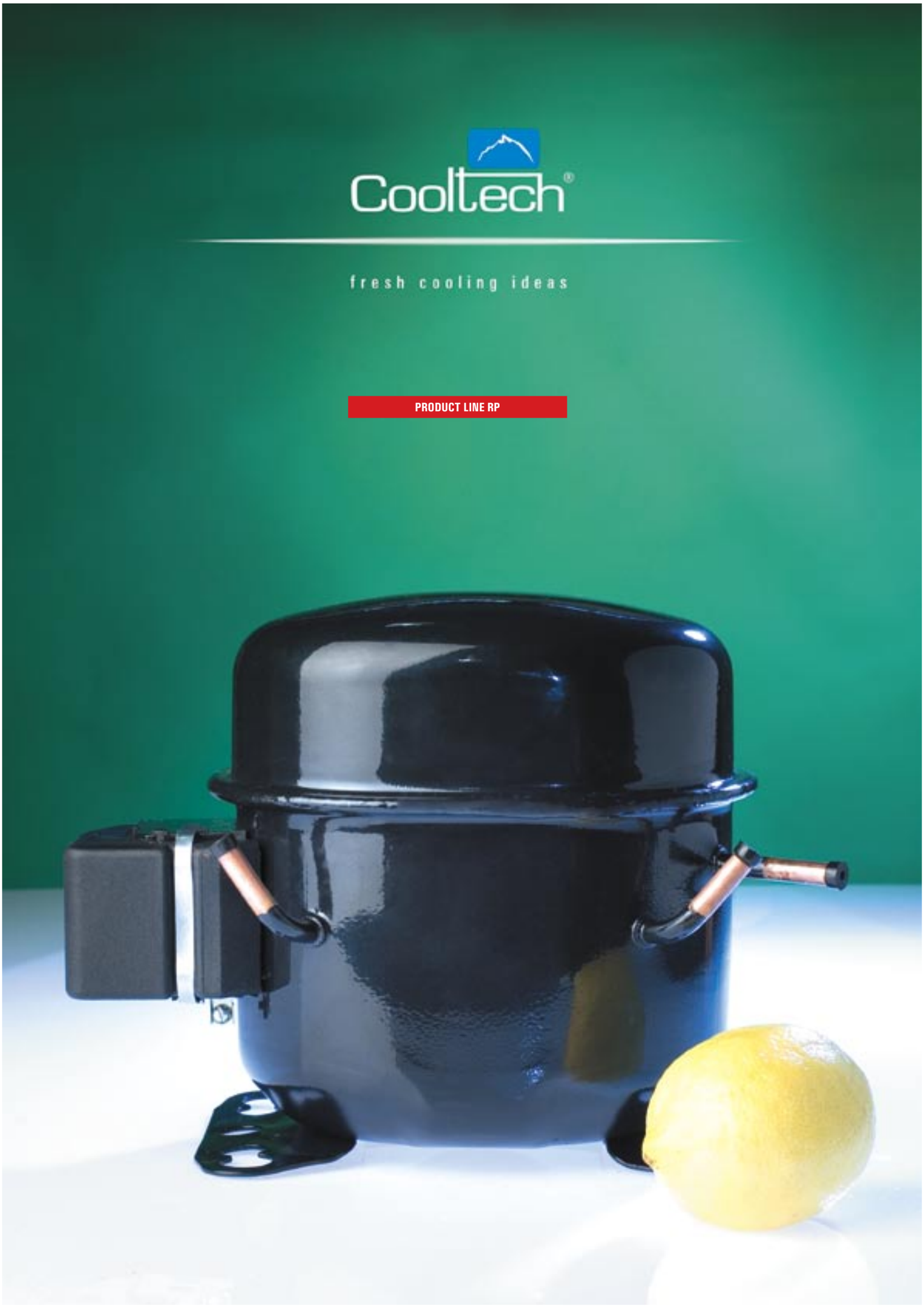
PRODUCT LINE RP



PRODUCT LINE RP: HIGH-MEDIUM

HIGH MEDIUM BACK PRESSURE COMPRESSORS

#	Model	HP	Displacement, cm3	Weight, kg	Refrigerant type	Oil charge, g	Boiling temperature range, OC	Expansion device	Cooling type	Motor type
1	RP 10 TN	1/2	10.0	11.5	R22	400	-25...+10	C or V	F	CSR
2	RP 12 TN	1/2	12	12,3	R22	400	-25...+10	C or V	F	CSR
3	RP 14 TN	1/2	14	12,5	R22	400	-25...+10	C or V	F	CSR
4	RP 16 TN	3/4	16	12,8	R22	400	-25...+10	C or V	F	CSR
5	RP 10 TM	1/2	10	11,5	R22	400	-25...+10	C or V	F	3-phase
6	RP 12 TM	1/2	12	12,5	R22	400	-25...+10	C or V	F	3-phase
7	RP 14 TM	1/2	14	12,5	R22	400	-25...+10	C or V	F	3-phase
8	RP 16 TM	3/4	16	12,5	R22	400	-25...+10	C or V	F	3-phase
9	RP 13 UM	3/4	13,4	12,3	R22	400	-10...+10	C	F	CSR
10	RP 14 TN-10***	1/2	14	12,5	R22	400	-20...+10	C or V	F	CSR
11	RP 16 TN-10***	3/4	16	13	R22	400	-20...+10	C or V	F	CSR

REFRIGERATING CAPACITY Q0, POWER CONSUMPTION P AND SPECIFIC REFRIGERATING CAPACITY KE

#	Model	-25/55	-20/55	-15/55	-10/55	-5/55	0/55	+5/55	+7,2/55			-15/30			+10/55
		Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	P, W	Ke, W/W	Q0, W	P, W	Ke, W/W	Q0, W
1	RP 10 TN	326	425	549	697	869	1066	1287	1360	735	1,85	600	320	1,88	1533
2	RP 12 TN	339	444	579	743	937	1161	1414	1535	679	2,26	875	380	2,3	1697
3	RP 14 TN	414	542	706	907	1143	1416	1725	1880	885	2,12	1033	506	2,04	2070
4	RP 16 TN	480	675	819	1052	1326	1643	2001	2180	1080	2,02	1200	604	1,99	2401
5	RP 10 TM	326	425	549	697	869	1066	1287	1360	735	1,85	600	320	1,88	1533
6	RP 12 TM	339	444	579	743	937	1161	1414	1535	679	2,26	875	380	2,3	1697
7	RP 14 TM	414	542	706	907	1143	1416	1725	1880	885	2,12	1033	506	2,04	2070
8	RP 16 TM	480	675	819	1052	1326	1643	2001	2180	1080	2,02	1200	604	1,99	2401
9	RP 13 UM	-	-	-	772	996	1265	1581	1735	738	2,35	-	-	-	1943
10	RP 14 TN-10***	-	690	855	1050	1355	1595	2085	2200	1050	2,1	-	-	-	2485
11	RP 16 TN-10***	-	795	995	1275	1574	1854	2225	2500	1260	1,98	-	-	-	2674

PRODUCT LINE RP: LOW

LOW BACK PRESSURE (LBP)

#	Model	HP	Displacement, cm3	Weight, kg	Refrigerant type	Oil charge, g	Boiling temperature range, OC	Expansion device	Cooling type	Motor type
1	RP 12 FN	1/3	12.0	12.3	R22	400	-35...-10	C or V	F	CSR
2	RP 12 FM	1/3	12.0	12.5	R22	400	-35...-10	C or V	F	3 phase
3	RP 14 FN	3/8	14.0	12.5	R22	400	-35...-10	C or V	F	CSR
4	RP 14 FM	3/8	14.0	12.5	R22	400	-35...-10	C or V	F	3 phase
5	RP 16 FN	1/2	16.0	12.8	R22	400	-35...-10	C or V	F	CSR
6	RP 16 FM	1/2	16.0	12.8	R22	400	-35...-10	C or V	F	3 phase

REFRIGERATING CAPACITY Q0, POWER CONSUMPTION P AND SPECIFIC REFRIGERATING CAPACITY KE

#	Model	-40/55	-35/55	-30/55	-25/55	-23,3/55			-35/30			-20/55	-15/55	-10/55
		Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	P, W	Ke, W/W	Q0, W	P, W	Ke, W/W
1	RP 12 FN					430	410	1,05	310	310	0,1			
2	RP 12 FM					430	400	1,08	310	300	1,05			
3	RP 14 FN					500	500	1	350	330	1,06			
4	RP 14 FM					500	480	1,04	350	320	1,09			
5	RP 16 FN					640	570	1,12	440	410	1,07			
6	RP 16 FM					640	560	1,14	440	400	1,1			

CE

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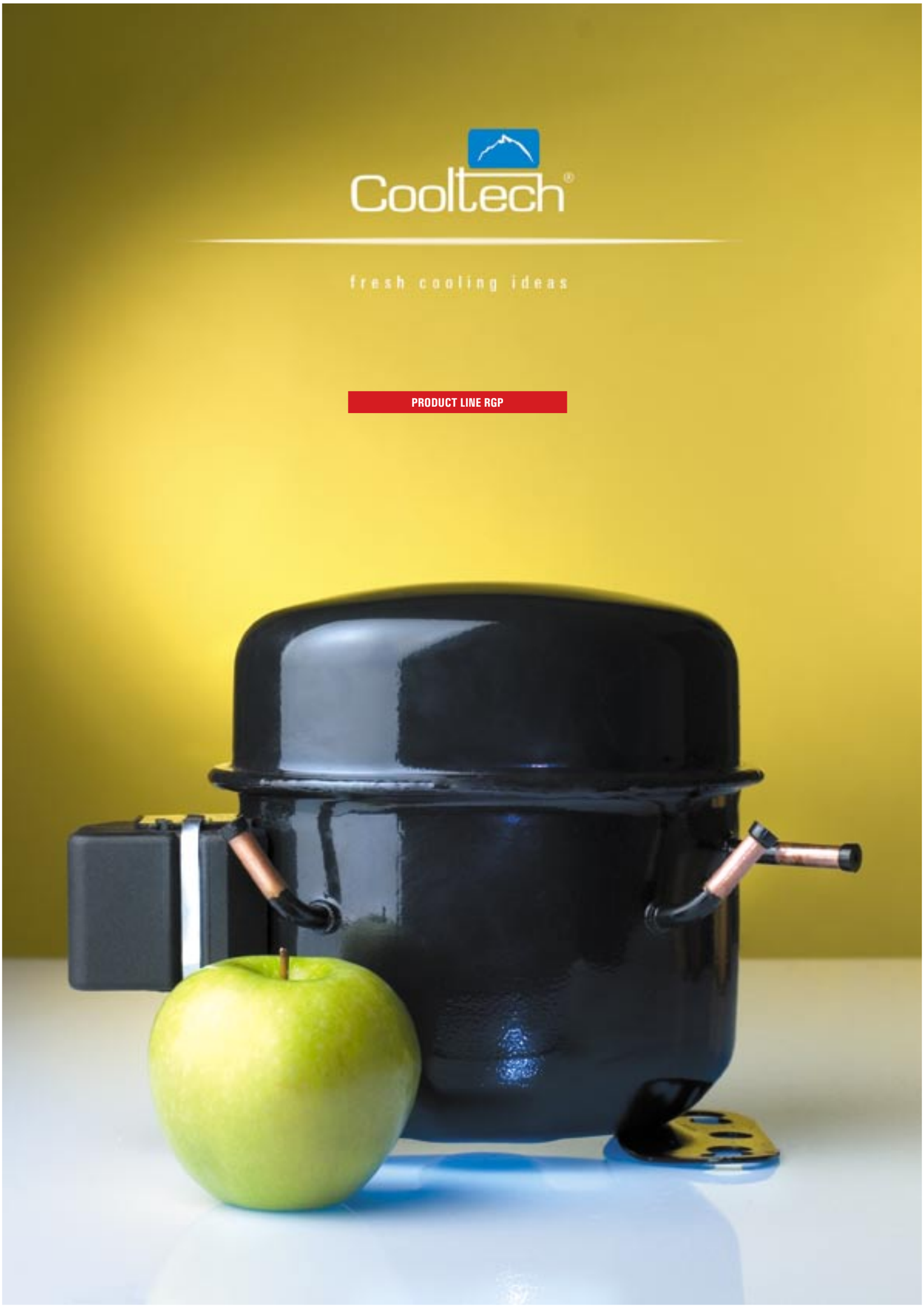
PRODUCT LINE RGP



PRODUCT LINE RGP: HIGH-MEDIUM

HIGH MEDIUM BACK PRESSURE COMPRESSORS

#	Model	HP	Displacement, Cm3	Weight, kg	Refrigerant type	Oil charge, g	Boiling temperature range, OC	Expansion device	Cooling type	Motor type
1	RGP 10 PB	1/3	10	11.0	R 134a	400	-25...+10	C or V	F	RSIR
2	RGP 10 TB	1/3	10	11.0	R 134a	400	-25...+10	C or V	F	CSIR
3	RGP 12 PB	3/8	12	11,2	R 134a	350	-25...+10	C or V	F	RSIR
4	RGP 12 TB	3/8	12	11,2	R 134a	350	-25...+10	C or V	F	CSIR
5	RGP 14 PB	3/8	14	11,5	R 134a	400	-25...+10	C	F	RSIR
6	RGP 14 TB	3/8	14	11,5	R 134a	400	-25...+10	C or V	F	CSIR
7	RGP 16 TB	3/8	16	13,1	R 134a	320	-15...+10	C or V	F	CSIR
8	RGP16 TM	3/8	16	13,1	R 134a	320	-15...+10	C or V	F	3- phase
9	RGP 18 TB	1/2	18	12,8	R 134a	400	-25...+10	C or V	F	CSIR
10	RGP 18 TM	1/2	18	13,3	R 134a	400	-15...+10	C or V	F	3-phase

REFRIGERATING CAPACITY Q0, POWER CONSUMPTION P AND SPECIFIC REFRIGERATING CAPACITY KE

#	Model	-25/55	-20/55	-15/55	-10/55	-5/55	0/55	+5/55	+7,2/55			-15/30			+10/55
		Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	P, W	Ke, W/W	Q0, W	P, W	Ke, W/W	Q0, W
1	RGP 10 PB	174	243	330	436	560	702	863	1005	485	2,07	455	250	1,82	1043
2	RGP 10 TB	174	243	330	436	560	702	863	1005	485	2,07	455	250	1,82	1043
3	RGP 12 PB	186	269	371	494	636	799	981	1068	518	2,06	545	280	1,95	1183
4	RGP 12 TB	186	269	371	494	636	799	981	1068	518	2,06	545	280	1,95	1183
5	RGP 14 PB	209	298	410	546	706	889	1097	1195	588	2,03	630	320	1,97	1328
6	RGP 14 TB	209	298	410	546	706	889	1097	1195	588	2,03	630	320	1,97	1328
7	RGP 16 TB	-	-	523	680	865	1080	1323	1439	688	2,09	740	380	1,95	1595
8	RGP16 TM	-	-	523	680	865	1080	1323	1439	688	2,09	740	380	1,95	1595
9	RGP 18 TB	-	-	591	770	977	1220	1495	1628	713	2,28	769	377	2,04	1802
10	RGP 18 TM	-	-	591	770	977	1220	1495	1628	713	2,28	769	377	2,04	1802

PRODUCT LINE RGP: LOW

LOW BACK PRESSURE (LBP)

#	Model	HP	Displacement, cm3	Weight, kg	Refrigerant type	Oil charge, g	Boiling temperature range, OC	Expansion device	Cooling type	Motor type
1	RGP10AB	1/6	10	11,5	R 134a	400	-35...-10	C	S	RSIR
2	RGP 10 BB	1/6	10	11,5	R 134a	400	-35...-10	C	OC	RSIR
3	RGP 10 CB	1/6	10	11,5	R 134a	400	-35...-10	C	F	RSIR
4	RGP 10 FB	1/6	10	11,5	R 134a	400	-35...-10	C or V	F	CSIR
5	RGP 12 AB	1/5	12	11,5	R 134a	400	-35...-10	C	S	RSIR
6	RGP 12 BB	1/5	12	11,5	R 134a	400	-35...-10	C	OC	RSIR
7	RGP 12 CB	1/5	12	11,5	R 134a	400	-35...-10	C	F	RSIR
8	RGP 12 EB	1/5	12	11,5	R 134a	400	-35...-10	C or V	OC	CSIR
9	RGP 12 FB	1/5	12	11,5	R 134a	400	-35...-10	C or V	F	CSIR
10	RGP 14 BB	1/5	14	11,5	R 134a	470	-35...-10	C	OC	RSIR
11	RGP 14 CB	1/5	14	11,5	R 134a	470	-35...-10	C	F	RSIR
12	RGP 14 EB	1/5	14	11,5	R 134a	470	-35...-10	C or V	OC	CSIR
13	RGP 14 FB	1/5	14	11,5	R 134a	470	-35...-10	C or V	F	CSIR
14	RGP 16 BB	¼	16,14	12	R 134a	530	-35...-10	C	OC	RSIR
15	RGP 16 CB	¼	16,14	12	R 134a	530	-35...-10	C	F	RSIR
16	RGP 16 EB	¼	16,14	12	R 134a	530	-35...-10	C or V	OC	CSIR
17	RGP 16 FB	¼	16	12	R 134a	530	-35...-10	C or V	F	CSIR

REFRIGERATING CAPACITY Q0, POWER CONSUMPTION P AND SPECIFIC REFRIGERATING CAPACITY KE

#	Model	-40/55	-35/55	-30/55	-25/55	-23,3/55			-35/30			-20/55	-15/55	-10/55
		Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	P, W	Ke, W/W	Q0, W	P, W	Ke, W/W
1	RGP10AB		105	153	211	226	195	1,16	130	140	0,93	278	355	441
2	RGP 10 BB		111	157	216	226	195	1,16	130	140	0,93	286	369	465
3	RGP 10 CB		111	157	216	226	195	1,16	130	140	0,93	286	369	465
4	RGP 10 FB		111	157	216	226	195	1,16	130	140	0,93	286	369	465
5	RGP 12 AB		102	162	234	262	230	1,14	155	160	0,97	318	415	523
6	RGP 12 BB		102	162	234	262	230	1,14	155	160	0,97	318	415	523
7	RGP 12 CB		102	162	234	262	230	1,14	155	160	0,97	318	415	523
8	RGP 12 EB		102	162	234	262	230	1,14	155	160	0,97	318	415	523
9	RGP 12 FB		102	162	234	262	230	1,14	155	160	0,97	318	415	523
10	RGP 14 BB		122	194	281	315	270	1.16	185	185	1.0	382	498	627
11	RGP 14 CB		122	194	281	315	270	1.16	185	185	1.0	382	498	627
12	RGP 14 EB		122	194	281	315	270	1.16	185	185	1.0	382	498	627
13	RGP 14 FB		122	194	122	194	281	1.16	185	185	1.0	382	498	627
14	RGP 16 BB		134	224	328	366	321	1.14	220	230	0.96	445	576	720
15	RGP 16 CB		134	224	328	366	321	1.14	220	230	0.96	445	576	720
16	RGP 16 EB		134	224	328	366	321	1.14	220	230	0.96	445	576	720
17	RGP 16 FB					366	321	1.14	220	230	0.96			

CE

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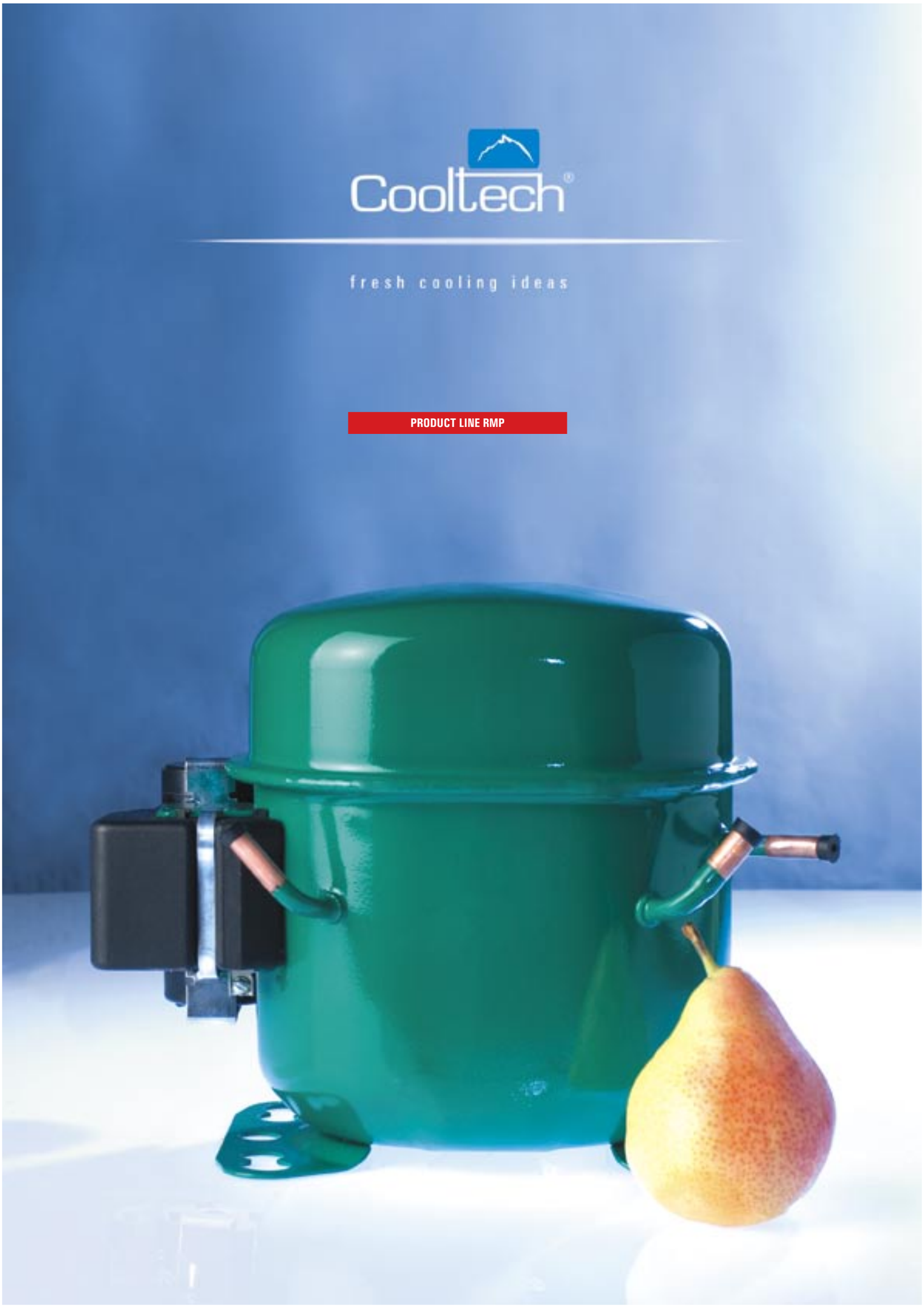
PRODUCT LINE RMP



PRODUCT LINE RMP: HIGH-MEDIUM

HIGH MEDIUM BACK PRESSURE COMPRESSORS

#	Model	HP	Displacement, Cm3	Weight, kg	Refrigerant type	Oil charge, g	Boiling temperature range, OC	Expansion device	Cooling type	Motor type
1	RMP 10 TB	½	10.0	12.0	R 404A	400	-25...+10	C or V	F	CSIR
2	RMP 12 TB	½	12	13,5	R 404A	400	-25...+10	C or V	F	CSR
3	RMP 14 TB	¾	14	13,5	R 404A	400	-25...+10	C or V	F	CSR
4	RMP 16 TB	3/4	16	14	R 404A	400	-25...+10	C or V	F	CSR
5	RMP 14 TM	3/4	14	13,5	R 404A	400	-25...+10	C or V	F	3-phase

REFRIGERATING CAPACITY Q0, POWER CONSUMPTION P AND SPECIFIC REFRIGERATING CAPACITY KE

#	Model	-25/55	-20/55	-15/55	-10/55	-5/55	0/55	+5/55	+7,2/55			-15/30			+10/55
		Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	P, W	Ke, W/W	Q0, W	P, W	Ke, W/W	Q0, W
1	RMP 10 TB	384	503	646	813	1003	1217	1455	1569	747	2,1	950	440	2,16	1716
2	RMP 12 TB	430	567	733	929	1156	1412	1698	1833	797	2,3	1120	460	2,43	2014
3	RMP 14 TB	535	694	884	1104	1353	1634	1944	2090	977	2,14	1260	565	2,23	2284
4	RMP 16 TB	624	805	1025	1280	1569	1895	2255	2420	1100	2.2	1460	655	2.23	2469
5	RMP 14 TM	535	694	884	1104	1353	1634	1944	2090	977	2,14	1260	565	2,23	2284

PRODUCT LINE RMP: LOW

LOW BACK PRESSURE (LBP)

#	Model	HP	Displacement, Cm3	Weight, kg	Refrigerant type	Oil charge, g	Boiling temperature range, OC	Expansion device	Cooling type	Motor type
1	RMP 10 FB	1/3	10	12	R 404A	400	-40...-10	C or V	F	CSIR
2	RMP 12 FB	3/8	12	12	R 404A	400	-40...-10	C or V	F	CSIR
3	RMP 14 FB	1/2	14	13,9	R 404A	400	-40...-10	C or V	F	CSIR

REFRIGERATING CAPACITY Q0, POWER CONSUMPTION P AND SPECIFIC REFRIGERATING CAPACITY KE

#	Model	-40/55	-35/55	-30/55	-25/55	-23,3/55			-35/30			-20/55	-15/55	-10/55
		Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	P, W	Ke, W/W	Q0, W	P, W	Ke, W/W
1	RMP 10 FB	163	242	337	447	465	465	1.00	300	300	1.0	573	714	871
2	RMP 12 FB	140	228	339	472	522	450	1.16	350	320	1.1	629	808	1011
3	RMP 14 FB	163	274	409	568	627	560	1.12	400	420	0.95	751	958	1023

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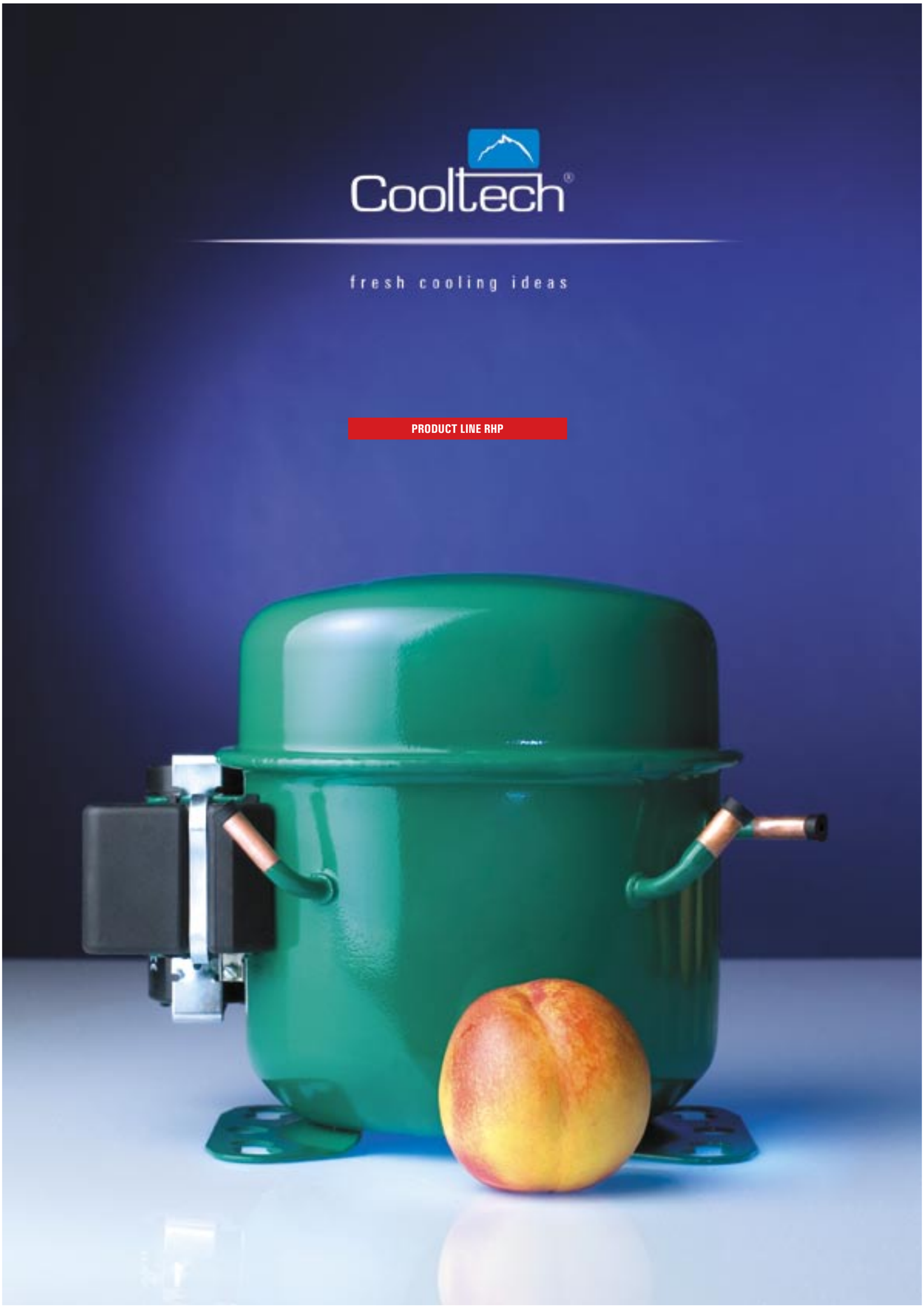
PRODUCT LINE RHP



HIGH MEDIUM BACK PRESSURE COMPRESSORS

#	Model	HP	Displacement, Cm3	Weight, kg	Refrigerant type	Oil charge, g	Boiling temperature range, OC	Expansion device	Cooling type	Motor type
1	RHP 10 AA, -01	1/10	9,93	10	R 600a	400	-30...-10	C	S	RSIR
2	RHP 12 AA	1/6	12,1	10,4	R 600a	400	-30...-10	C	S	RSIR
3	RHP 14 AA	1/6	14,31	10,7	R 600a	400	-30...-10	C	S	RSIR
4	RHP 16 AA	1/5	16,14	10,9	R 600a	400	-30...-10	C	S	RSIR

REFRIGERATING CAPACITY Q0, POWER CONSUMPTION P AND SPECIFIC REFRIGERATING CAPACITY KE

#	Model	-40/55	-35/55	-30/55	-25/55	-23,3/55			-35/30			-20/55	-15/55	-10/55
		Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	Q0, W	P, W	Ke, W/W	Q0, W	P, W	Ke, W/W
1	RHP 10 AA, -01		58	89	126	137	112	1.23				168	215	267
2	RHP 12 AA			110	157	174	149	1.17				210	270	337
3	RHP 14 AA			131	181	200	169	1.18				239	303	375
4	RHP 16 AA			148	201	222	186	1.19				266	341	426

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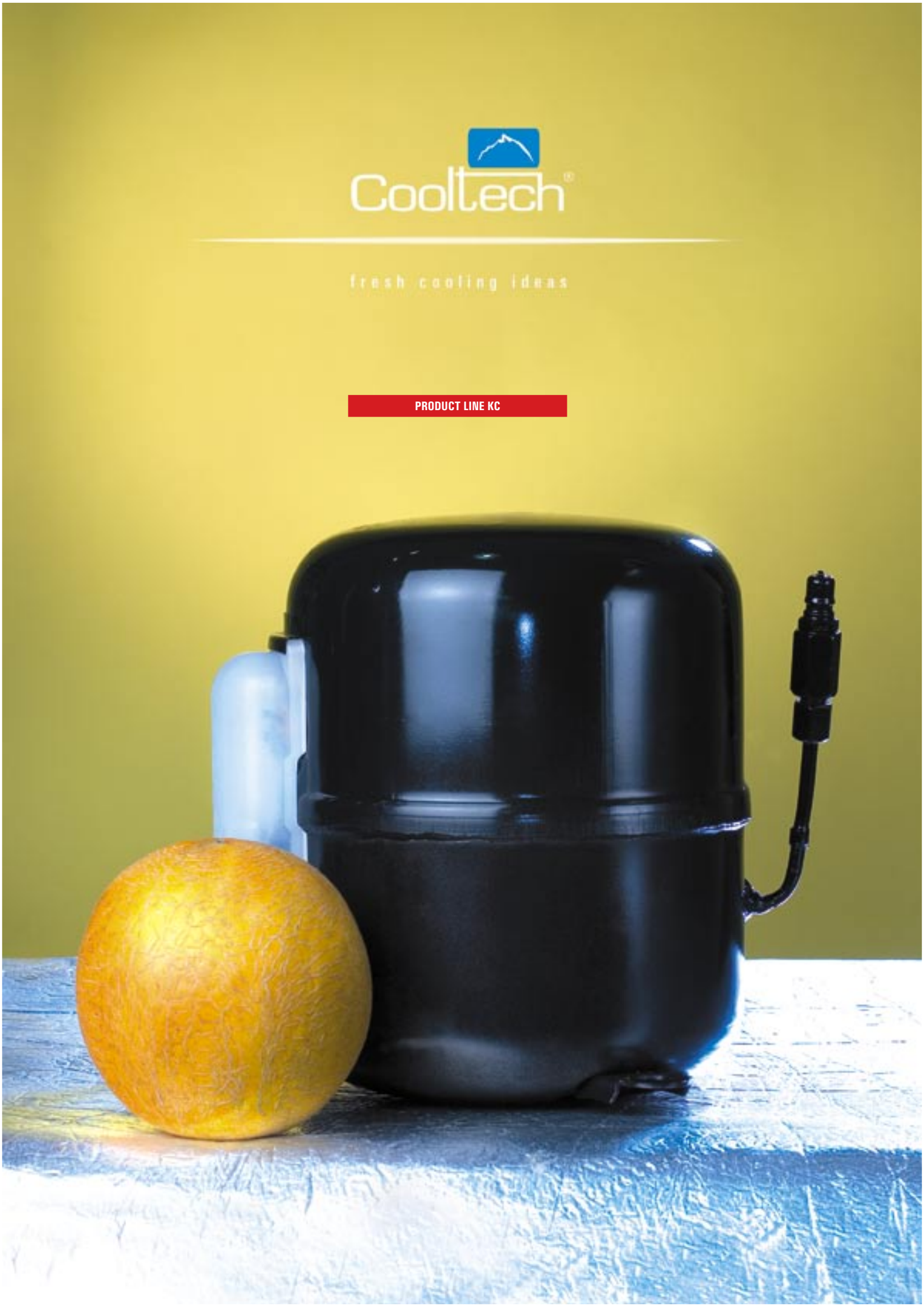

Model	Cylinder displacement, cm3	Weight, kg	Refrigerant type	Oil quantity, kg	Expansion device	Cooling	Motor type	Refrigerating capacity, W	Mounting dimensions			
									Suction		Discharge	
									thread	tube, mm	thread	tube, mm
Medium back pressure (refrigerating capacity at t0 = -15° tcond = 30°C)												
Hermetic												
КС 800 (2)	12,86	23	R22	0,9	C or V	F	three phase	840	---	12	---	10
КС 800 1(2)	12,86	23	R22	0,9	C or V	F	CSR	840	---	12	---	10
КС 1000 (2)	14,47	24	R22	0,9	C or V	F	three phase	1060	---	12	---	10
КС 1000 1(2)	14,47	24	R22	0,9	C or V	F	CSR	1060	---	12	---	10
КС 1600 (2)	24,4	24	R22	0,9	C or V	F	three phase	1600	---	12	---	10
КС 1600 1(2)	24,4	24	R22	0,9	C or V	F	CSR	1600	---	12	---	10
КС 2000 (2)	30,1	25	R22	1,8	C or V	F	three phase	2000	---	12	---	12
ПГС-3	48	45	R22	2	V	ОС	three phase	3000	M24x1,5	16	M22x1	12
ПГС-4	61	50	R22	2	V	ОС	three phase	4000	M24x1,5	16	M22x1	12
Shielded												
КСэ 630 (2)	10,94	24,5	R22	1,2	C or V	F	three phase	630	M18x1,5	12	M18x1,5	10
КСэ 800 (2)	12,86	25,5	R22	1,2	C or V	F	three phase	840	M18x1,5	12	M18x1,5	10
КСэ 1250 (2)	20,35	26,3	R22	1,2	C or V	F	three phase	1310	M18x1,5	12	M18x1,5	10
КСэ 1600 (2)	24,4	26,5	R22	1,2	C or V	F	three phase	1600	M18x1,5	12	M18x1,5	10
КСэ 1800(2)	27,2	26,5	R22	1,2	C or V	F	three phase	1800	M18x1,5	12	M18x1,5	10
Low back pressure (refrigerating capacity at t0 = -35° tcond = 30°C)												
Hermetic												
КН 630(2)	24,4	24	R22	1,8	C or V	ОС	three phase	640	---	12	---	10
КН 630 1(2)	24,4	24	R22	1,8	C or V	ОС	CSR	640	---	12	---	10
КН 800(2)	30,1	29	R22	1,8	C or V	ОС	three phase	800	---	12	---	10
Shielded												
КНэ 500 (2)	20,35	26,5	R22	1,2	C or V	F	three phase	500	M18x1,5	12	M18x1,5	10
КНэ 630 (2)	24,4	26,5	R22	1,2	C or V	F	three phase	630	M18x1,5	12	M18x1,5	10

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PRODUCT LINE CONDENSING UNITS

Model	Refrigerating capacity,W	Input power,W	Current type, voltage, V	Refrigerant type	Receiver capacity, l	Fan capacity, m3/h	Mounting dimensions thread/tube, mm				Fitting dimensions, mm	Holes,mm	Weight,kg	Dimensions, mm				
							Suction		Liquid line					A	B	C	D	D*
Hermetic high medium back pressure (refrigerating capacity at t0=-15° tamb=30°C)																		
BC 800 (2)	815	420	Three phase 380	R22	1,4	825	M18x1,5	12	M14x1,5	8	350x350	9	47	520	405	300	350	350
BC 800 1(2)	815	420	Single phase 220	R22	1,4	825	M18x1,5	12	M14x1,5	8	350x350	9	47	520	405	300	350	350
BC 1000 (2)	1060	560	Three phase 380	R22	1,4	825	M18x1,5	12	M14x1,5	8	350x350	9	49	520	405	300	350	350
BC 1000 1(2)	1060	560	Single phase 220	R22	1,4	825	M18x1,5	12	M14x1,5	8	350x350	9	49	520	405	300	350	350
BC 1600 (2)	1690	835	Three phase 380	R22	2,2	2x825	M18x1,5	12	M18x1,5	10	684x290	13	71	825	470	325	290	684
BC 1600 1(2)	1690	835	Single phase 220	R22	2,2	2x825	M18x1,5	12	M18x1,5	10	684x290	13	71	825	470	325	290	684
BC 2000 (2)	2050	1051	Three phase 380	R22	2,7	2x825	M22x1,0	16	M18x1,5	10	684x290	13	80	825	470	325	290	684
BC 3200 (2)	3150	1700	Three phase 380	R22	3,6	4x825	M22x1,0	16	M18x1,5	10	684x290	13	117	845	500	610	290	684
BC 4000 (2)	4000	1600	Three phase 380	R22	3,6	4x825	M22x1,0	16	M18x1,5	10	684x290	13	120	845	500	610	290	684
BC 5000 (2)	5000	2000	Three phase 380	R22	3,6	5000	M22x1,0	16	M18x1,5	13	554x380	13	110	825	562	610	554	380
BC 6000 (2)	6000	2400	Three phase 380	R22	3,6	5000	M22x1,0	16	M18x1,5	13	554x380	13	115	825	562	610	554	380
Hermetic low back pressure (refrigerating capacity at t0=-35° t amb=20°C)																		
BH 630 (2)M	640	545	Three phase 380	R22	2	825	M18x1,5	12	M14x1,5	8	350x350	9	49	520	405	310	350	350
BH 630 1 (2)	640	545	Single phase 220	R22	2	825	M18x1,5	12	M14x1,5	8	350x350	9	49	520	405	310	350	350
BH 800 (2)	780	835	Three phase 380	R22	2,7	2x825	M22x1,0	12	M14x1,5	10	684x290	13	80	825	470	325	290	684
Shielded high medium back pressure (refrigerating capacity at t0=-15° tamb=20°C)																		
BCэ 630 (2)	630	364	Three phase 380	R22	1,4	825	M18x1,5	12	M14x1,5	8	350x350	9	39	565	400	375	350	350
BCэ 800 (2)	840	484	Three phase 380	R22	1,4	825	M18x1,5	12	M14x1,5	8	350x350	9	40	565	400	375	350	350
BCэ 1250(2)2M	1310	733	Three phase 380	R22	2,2	825	M18x1,5	12	M14x1,5	8	350x350	9	47	585	400	375	350	350
BCэ 1600 (2)	1600	892	Three phase 380	R22	2,2	2x825	M22x1	16	M18x1,5	10	520x420	13	71	785	560	385	290	684
BCэ 2500 (2)	2500	1388	Three phase 380	R22	2,7	2x825	M22x1	16	M18x1,5	10	554x380	13	92	825	560	385	380	554
BCэ 3000 (2)	3200	1777	Three phase 380	R22	2,7	4x825	M22x1	16	M18x1,5	10	554x380	13	123	825	560	610	380	554
Shielded low back pressure (refrigerating capacity at t0=-35° t amb=20°C)																		
BHэ 500 (2)	500	450	Three phase 380	R22	1,4	825	M18x1,5	12	M14x1,5	8	350x350	9	47	585	440	375	350	350
BHэ 630 (2)	640	580	Three phase 380	R22	1,4	825	M18x1,5	12	M14x1,5	8	350x350	9	47	565	410	390	350	350
BHэ 1000 (2)	1000	909	Three phase 380	R22	2,7	2x825	M22x1	16	M18x1,5	10	554x380	13	100	825	560	385	380	554
BHэ 1250 (2)	1250	1136	Three phase 380	R22	2,7	4x825	M22x1	16	M18x1,5	10	554x380	13	125	825	560	610	380	554

Model	Refrigerating capacity, W	Input power, W	Receiver capacity,l	Refrigerant type	Current type, voltage,V	Fan capacity, m3/h	Mounting dimensions				Fitting dimensions ,mm	hole, mm	Weight, kg
							suction		liquid line				
							thread	tu-be, mm	thread	tube, mm			
High medium back pressure (refrigerating capacity at t0=-15°C, tamb=20°C)													
BC 400 1 (2) GP10TB	400	266	1,4	R134a	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	33
BC 500 1 (2) GP12TB	500	294	1,4	R134a	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	33
BC 600 1 (2) P10TN	600	353	1,4	R22	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	33
BC 600 1 (2) GP14TB	600	353	1,4	R134a	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	33
BC 700 1 (2) GP16TB	700	409	1,8	R134a	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	35
BC 800 1 (2) P12TN	800	421	1,4	R22	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	34
BC 800 1(2) GP18TB	800	410	1,8	R134a	single phase 220	600	M18X1,5	12	M14X1,5	8	280x300	12	34
BC 1000 1 (2) P14TN	1000	526	1,8	R22	single phase 220	825	M18X1,5	12	M14X1,5	8	350x350	12	36,5
BC 1000 1 (2) MP10TB	1000	476	1,8	R404a	single phase 220	825	M18X1,5	12	M14X1,5	8	350x350	12	36,5
BC 1100 1 (2) MP12TB	1100	523	1,8	R404a	single phase 220	825	M18X1,5	12	M14X1,5	8	350x350	12	36,5
BC 1200 1 (2) MP14TB	1200	571	1,8	R404a	single phase 220	825	M18X1,5	12	M14X1,5	8	350x350	12	37
BC 1200 1 (2) P16TN	1200	600	1,8	R22	single phase 220	825	M18X1,5	12	M14X1,5	8	350x350	12	37
BH 130 1 (2) GP10FB	130	142	1,4	R134a	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	29
BH 150 1 (2) GP12FB	150	164	1,4	R134a	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	30,5
BH 180 1 (2) GP14FB	180	197	1,8	R134a	single phase 220	600	M18X1,5	10	M14X1,5	8	280x300	12	30,7

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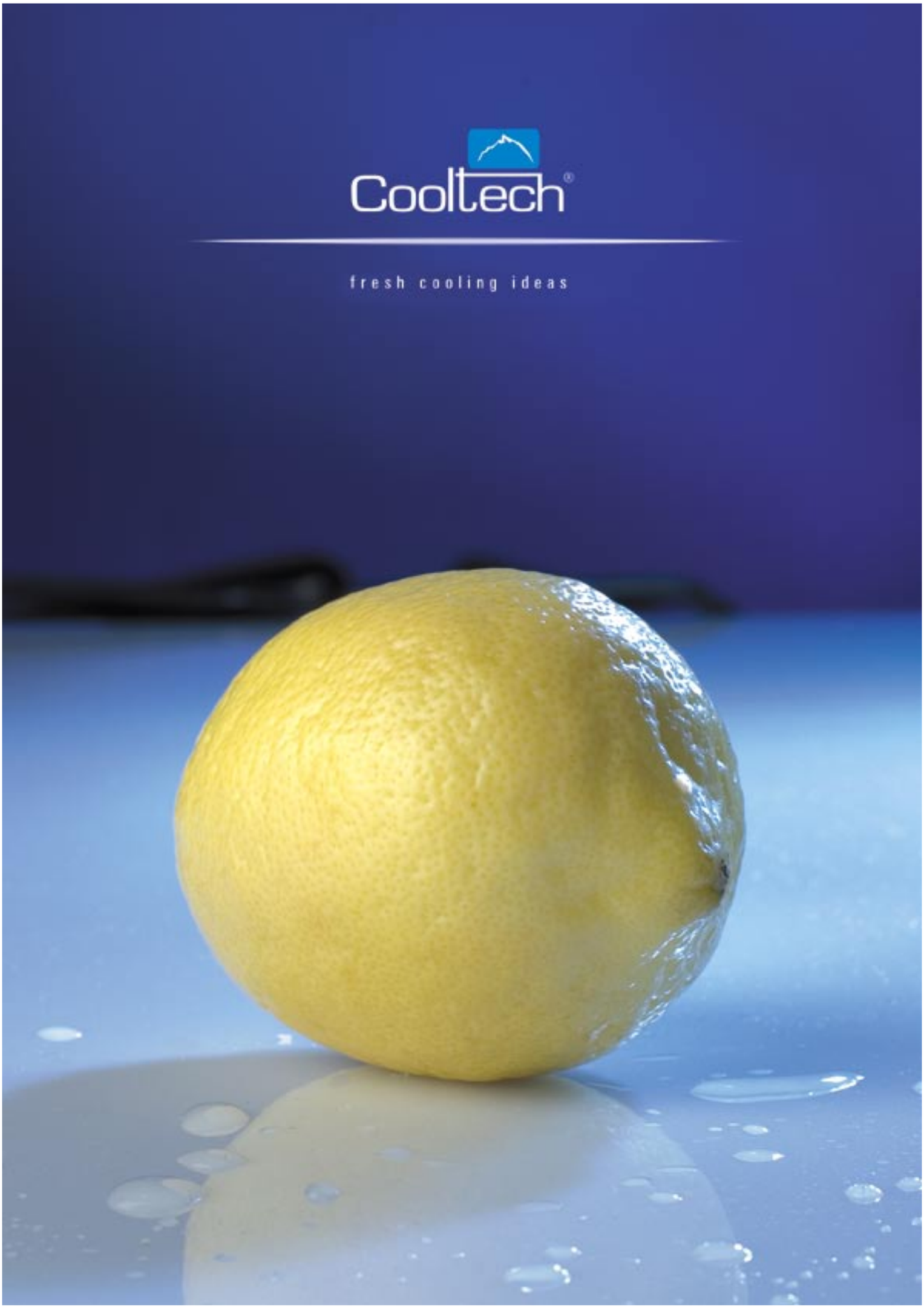

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