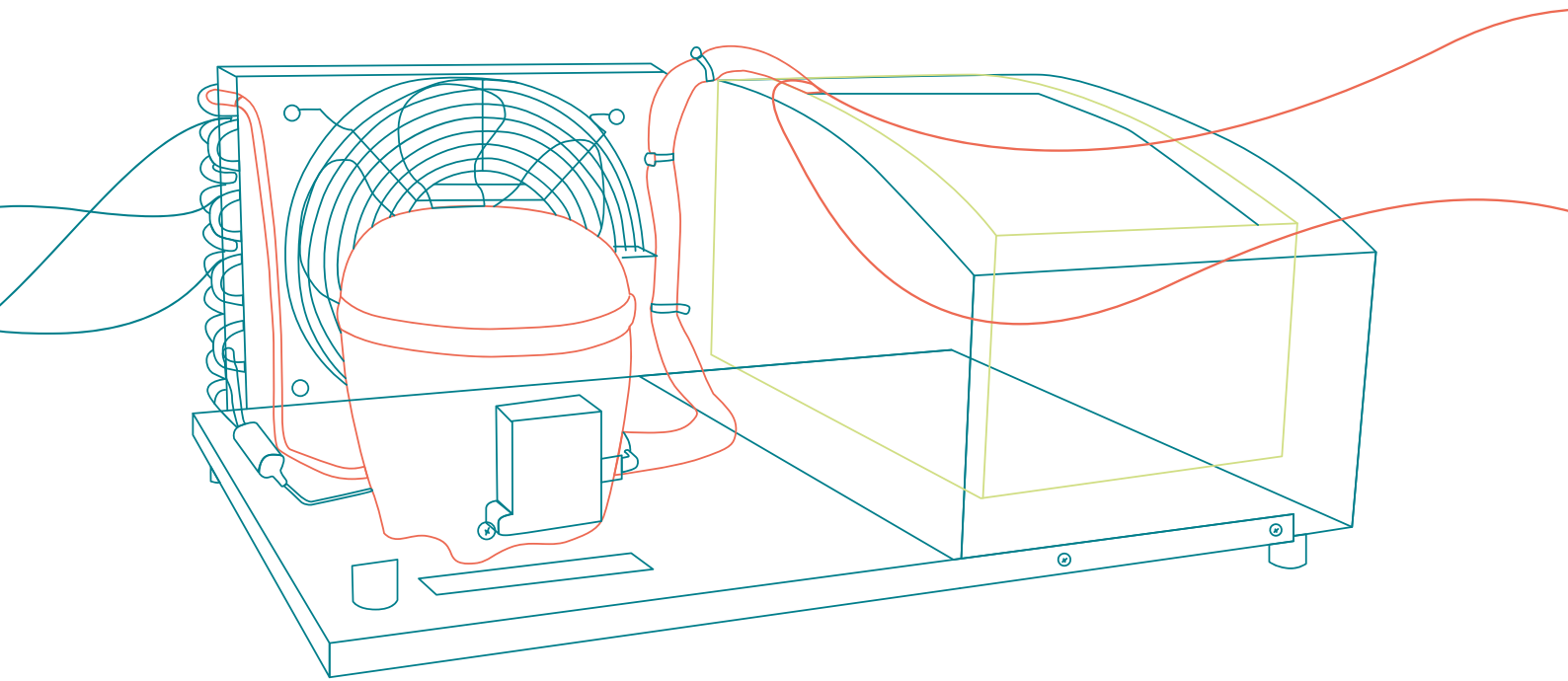


CONDENSING UNITS EUROPE

TAILORED CUSTOMIZATION

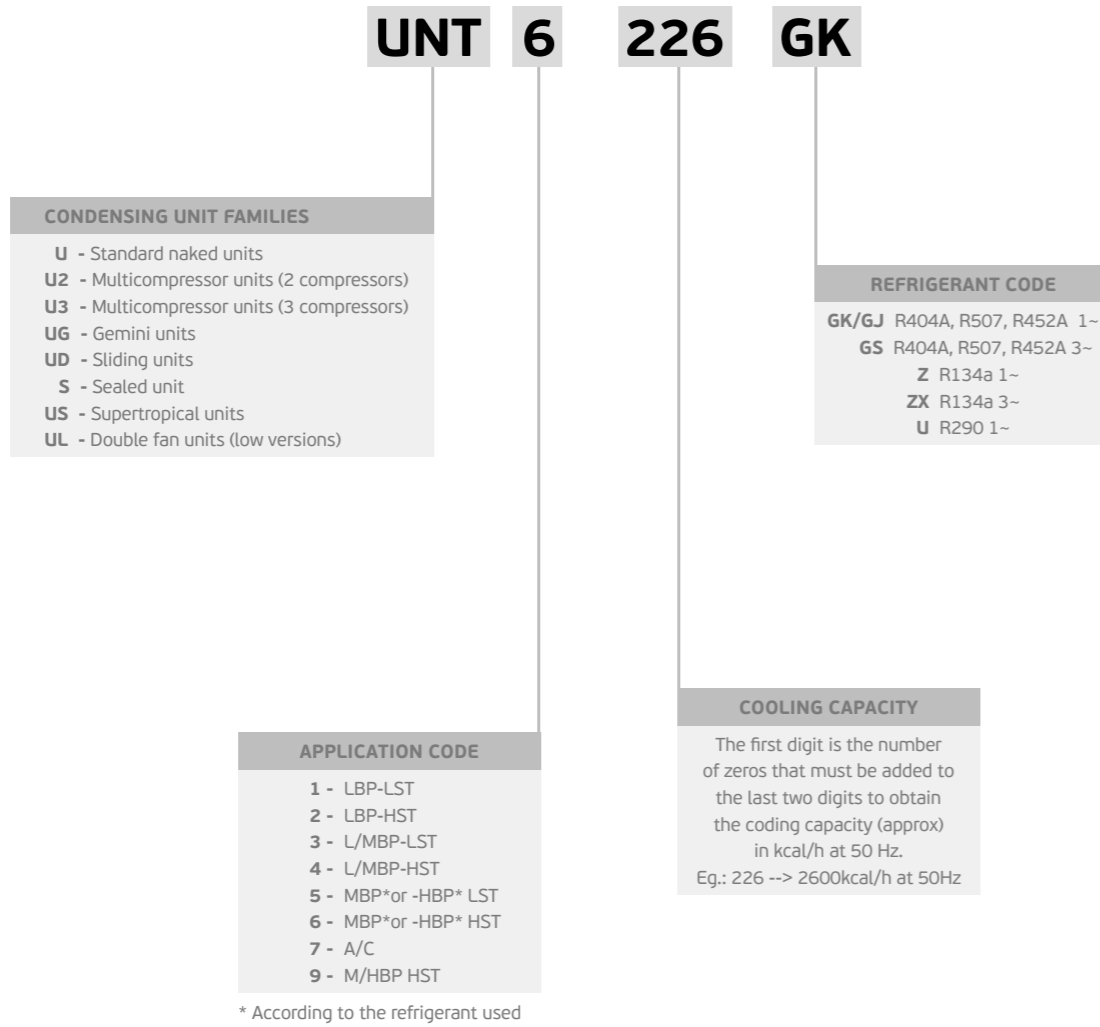


Product range suitable
for your needs.

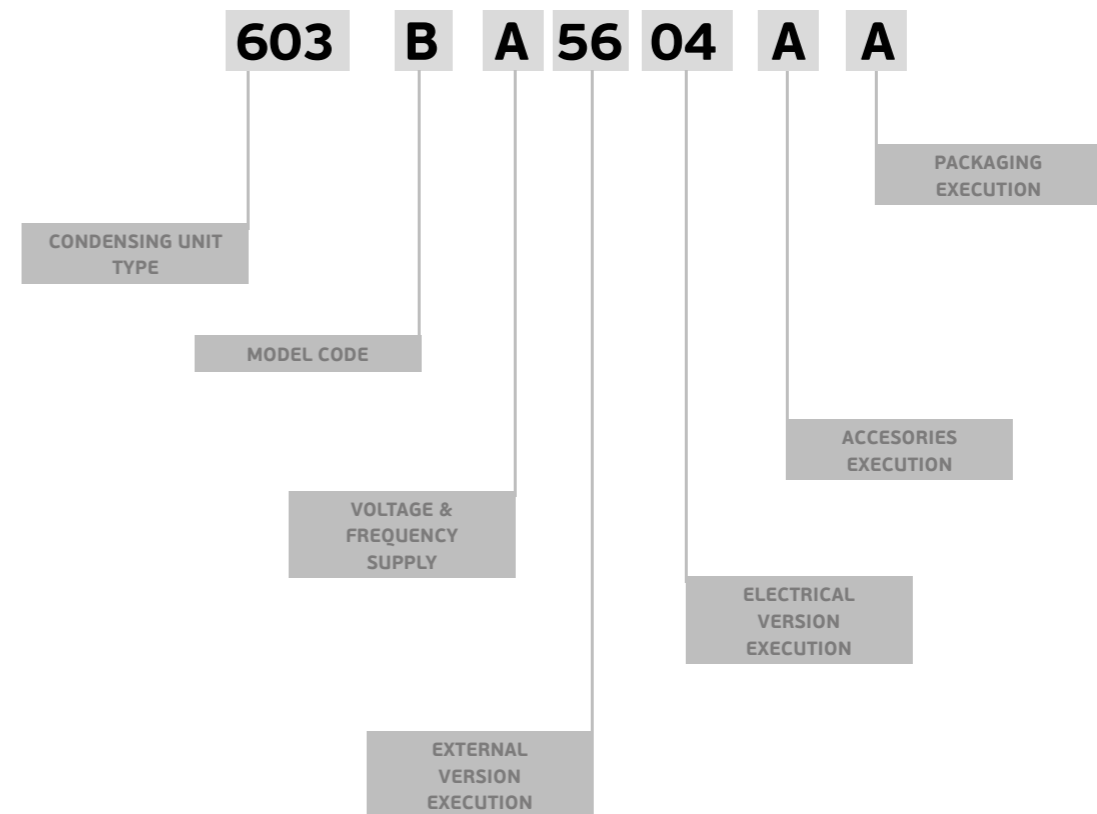
- R134a
- R290
- R404A/R507/R452A

embraco

MODEL DESCRIPTION CONDENSING UNIT SERIES: UEMT/UNE/UNJ/UNT/UDH/UDL



CONDENSING UNIT BILL OF MATERIAL CODE



MOTOR TORQUE

LST	(Low Starting Torque) Compressor with RSIR - RSCR - PSC electrical motor for systems with capillarity tube and with equalized pressures at start up.
HST	(High Starting Torque) Compressor with CSIR - CSR and 3ph electrical motor for systems with capillarity equalized or not equalized pressures at start up.

ELECTRICAL MOTOR TYPES

RSIR	Resistance Start – Inductive Run This motor type, used in the compressor of small power, has a low starting torque (LST) and must be applied only to capillary tube systems where the pressures equalize. The motor is characterized by a start winding with high ohmic resistance and must be disconnected when it reaches the stabilized rotational speed. An electromagnetic relay, calibrated for the motor current, disconnects the start winding at the end of the start up. An alternative to the electromagnetic relay is, for some models, a PTC solid state-starting device.
RSCR	Resistance Start – Capacitive Run Similar to RSIR motor version but uses a PTC solid state starting device and a permanent connected run capacitor to improve its efficiency.
CSIR	Capacitive Start – Inductive Run Similar to RSIR motor, with a different start winding in series with a start capacitor of suitable capacitance to get a high starting torque.
CSR	Capacitive Start & Run CSR version with capacitive run and start windings. Same as PSC motor but with a start capacitor in series with the start winding. A potential starting relay, calibrated for each motor, disconnects the start capacitor at the end of the start. The motor is characterized by a high starting torque (HST) and high efficiency.
PSC	Permanent Split Capacitor: PSC version with capacitive run winding. This motor is characterized by the run capacitor permanently connected in series with the start winding; both remain connected even after the motor starts. The starting torque is enough to guarantee that the compressor starts only with balanced pressures in capillary tubes systems or with a pressure equalizer.
3Ø	Three Phase Three-phase windings with star connections.

ELECTRICAL COMPONENTS

TYPE OF MOTOR	Overload Protector (*)	STARTING DEVICE				CAPACITOR	
		Current Relay	Voltage Relay	PTC	TSD	Start	Run
RSIR	√	√	X	√	X	X	X
RSCR	√	X	X	√	√	X	√
CSIR	√	√	X	X	X	√	X
CSR	√	X	√	X	X	√	√
PSC	√	X	X	X	X	X	√
3-Phases	√	X	X	X	X	X	X

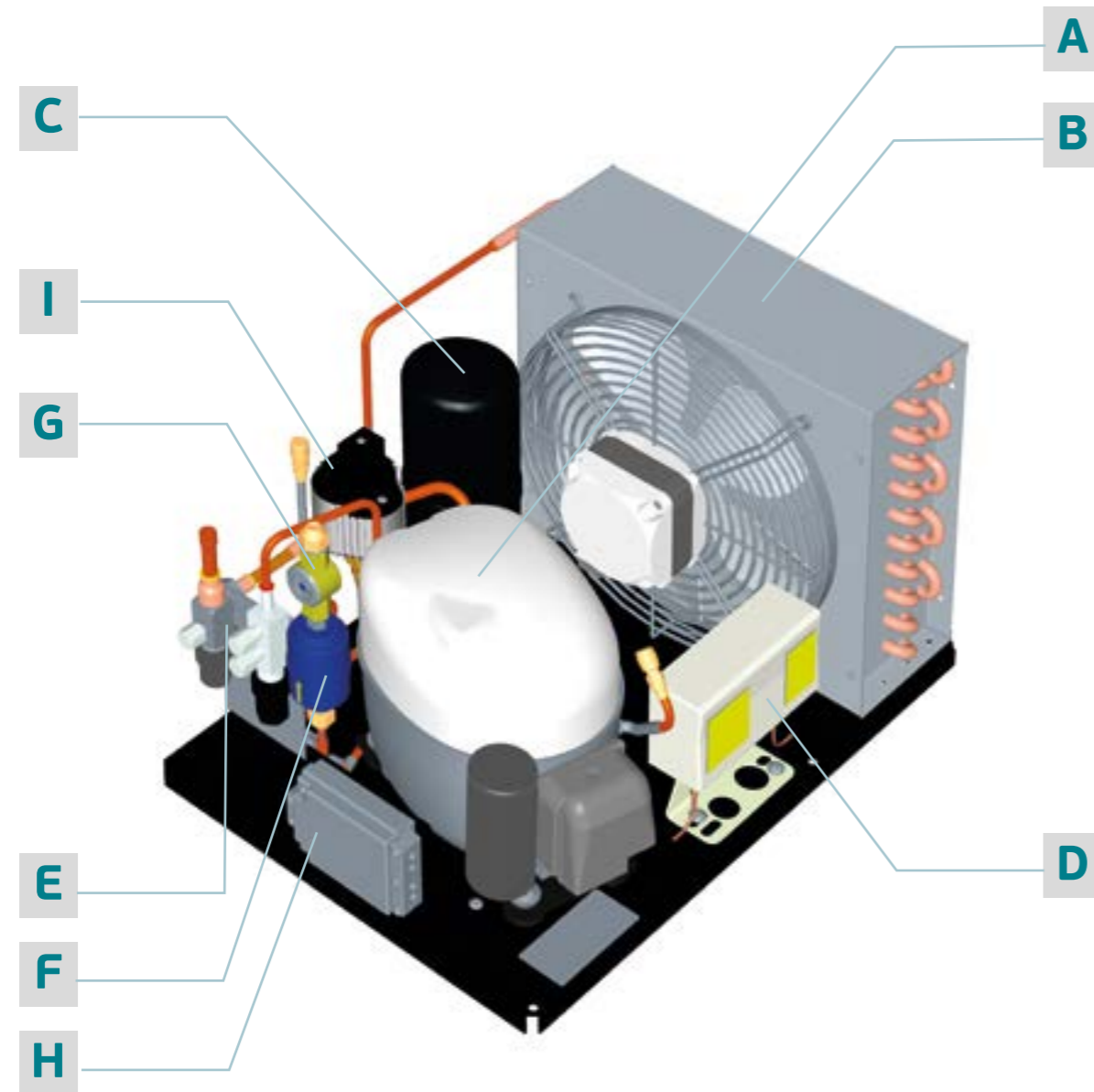
* Optional

VOLTAGE & FREQUENCY

Code	Voltage & Frequency	Voltage Working Range		Minimum Start Voltage	
		50Hz	60Hz	50Hz	60Hz
A	220 - 240V 50Hz 1 ~	198V - 254V		187V	
B	200 - 230V 50Hz / 208 - 230V 60Hz 1 ~	180V - 244V	187V - 244V	170V	177V
C	220V 50Hz 1 ~	200V - 242V		187V	
D	208 - 230V 60Hz 1 ~		187V - 244V		177V
E	115 - 127V 60Hz 1 ~		103V - 134V		98V
F	100V 50 Hz / 100 - 127V 60Hz 1 ~	90V - 110V	90V - 134V	85V	85V
G	115V 60Hz 1 ~		103V - 127V		98V
J	230V 60Hz 1 ~		207V - 253V		195V
K	200 - 220 V 50 Hz / 230 V 60 Hz 1~	180V - 234V	207V - 253V	170V	195V
M	380 - 420V 50Hz / 440 - 480V 60 Hz 3 ~	332V - 445V		323V	
N	200 - 240V 50Hz / 230V/60Hz 1 ~	180V - 254V	207V -253V	170V	195V
P	380V 60Hz 3 ~		342V -418V		323V
Q	100V 50 / 60 Hz 1~	90V - 110V	90V -110V	85V	85V
R	200V 50 / 60Hz 3 ~	180V - 220V	180V - 220V	170V	170V
V	230V 50Hz 1 ~	207V - 253V		195V	
X	220 - 240V 50 / 60 Hz 1 ~	150V (160V*) - 240V		150V (160V*)	
Z	200 - 230V 60Hz 1 ~		180V - 244V		170V

* Depending on compressor family, for details contact Technical Support.

ACCESSORIES & EXECUTION NAKED UNIT



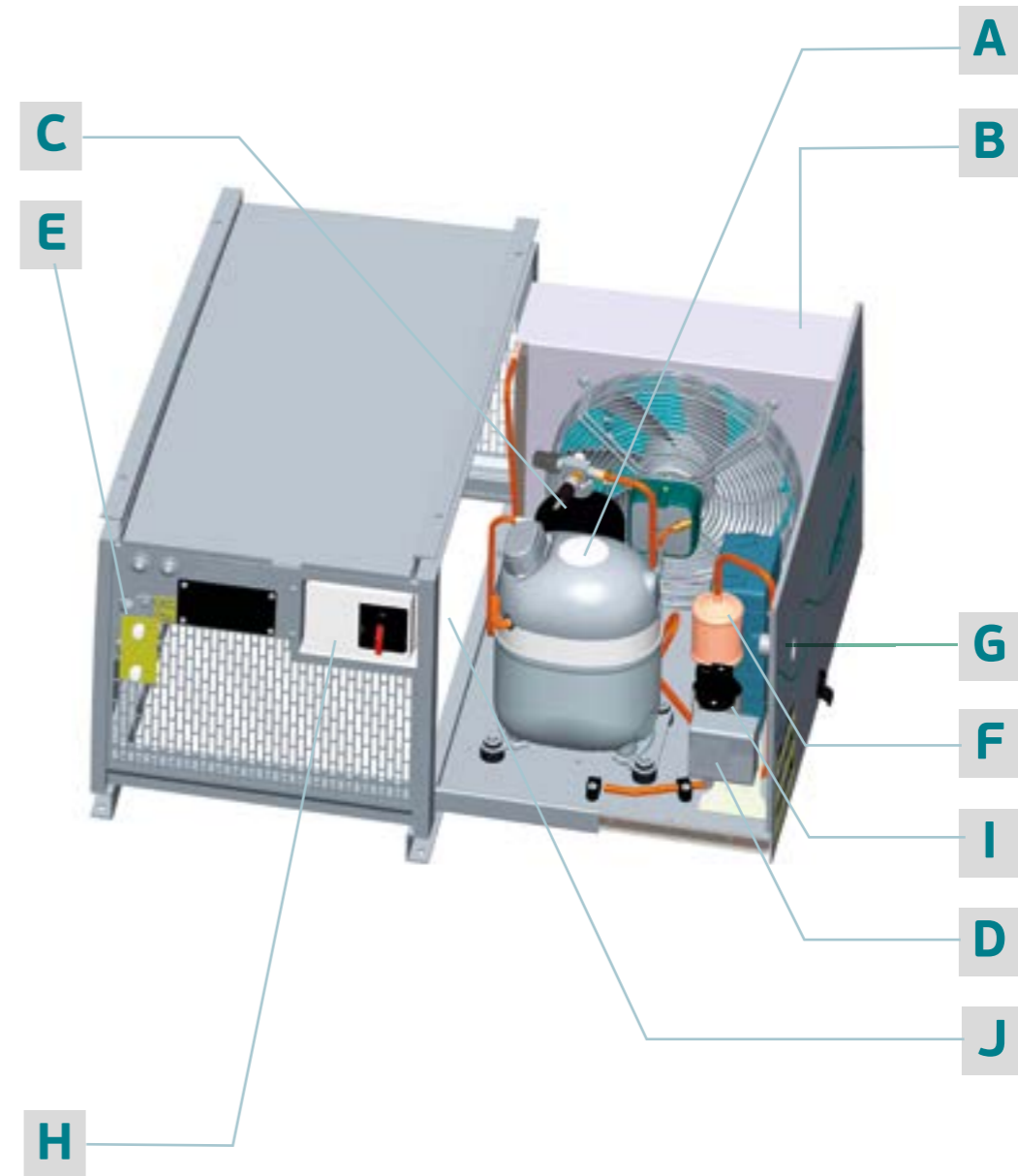
MAIN PARTS

A - Compressor / B - Condenser & Fan Motor

OPTIONAL PARTS

C - Receiver / D - Pressure switch / E - Valves / F - Filter drier / G - Sight glass / H - Electrical box / I - Fan speed control

ACCESSORIES & EXECUTION SLIDING UNIT



MAIN PARTS

A - Compressor / B - Condenser & Fan Motor

OPTIONAL PARTS

C - Receiver / D - Pressure switch / E - Valves / F - Filter drier / G - Sight glass / H - Electrical box / I - Fan speed control / J - Connect line to the top of unit

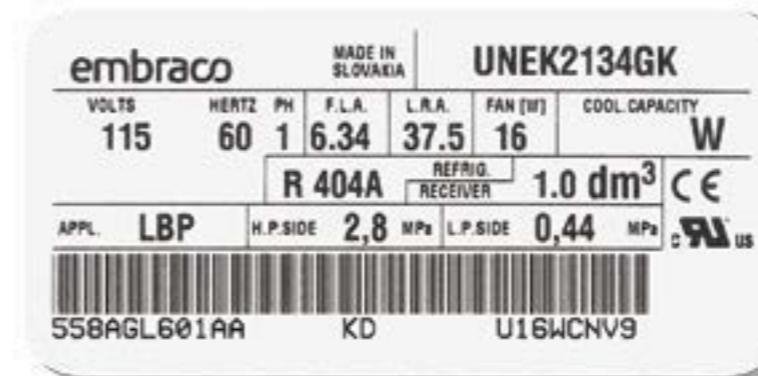
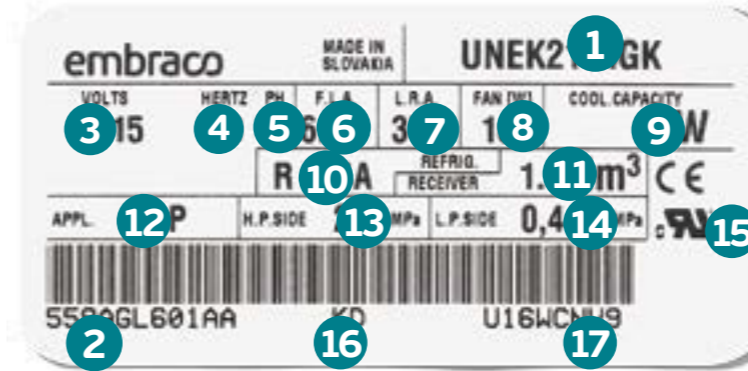
PACKAGING

CDU	QUANTITY PER PALLET
UEM	24
UNE	from 12 to 24
UNT	from 8 to 21
UNJ	from 4 to 12
UGN	4
SLIDING UNITS	1



IDENTIFICATION LABEL

UEM/UNE/UNT/UNJ/UGN/SLIDING UNITS



- 1 Condensing unit model
- 2 Condensing unit bill of material
- 3 Voltage
- 4 Frequency
- 5 Phases
- 6 Full load amperage
- 7 Locked rotor amperage
- 8 Fan output
- 9 Cooling capacity at rated point
- 10 Refrigerant
- 11 Receiver volume
- 12 Application type
- 13 Maximum pressure at high side
- 14 Maximum pressure at low side
- 15 Agency approvals
- 16 Date of production code
- 17 serial No.

R290 • LBP • 50Hz

SERIES	MODEL	VOLTAGE & FREQUENCY CODE	MOTOR TYPE	DISPL. cm ³	LRA A	HP	PERFORMANCE DATA ASHRAE				PERFORMANCE DATA EN13215											RECEIVER VOLUME liter	VALVE CONNECTION EXTERNAL DIAMETER		FAN				WEIGHT (REFERENCE ONLY) kg	OVERALL DIMENSIONS			CONDENSER		MODEL		
							EVAPORATING TEMPERATURE °C																SUCTION inch	LIQUID inch	EXTERNAL DIAMETER mm	NO. / ANGLE OF BLADES	NO. OF FANS	AIR FLOW RATE m ³ /h		A mm	B mm	C mm	EXT. VIEW REF.	NO. OF ROWS		NO. OF TUBES	
							RATED POINT -23,3 °C				-40 W	RATED POINT -35 °C				-30 W	-25 W	-20 W	-15 W	-10 W																	
							COOLING W	POWER INPUT W	CURRENT A	EFFICIENCY W/W		COOLING W	POWER INPUT W	EFFICIENCY W/W																							
UEMT	UEMT2121U	A	CSIR	5,57	7,7	1/3	292	195	1,32	1,50	125	160	169	0,95		203	249	302	365	423	0,6	3/8	1/4	200	5/28°	1	420	16,6	430	308	226	DWG02	3	8	UEMT2121U		
	UEMT2125U	A	CSIR	5,96	9,1	1/3+	318	205	1,59	1,55	135	173	182	0,95		232	281	343	420	486	1,1	3/8	1/4	230	5/28°	1	420	15,4	435	308	254	DWG03	3	9	UEMT2125U		
UNE	UNEK2121U	A	CSIR	6,20	12,4	1/3	291	225	1,83	1,29	111	143	153	0,93		186	243	306	384	505	0,6	3/8	1/4	200	5/28°	1	420	16,6	435	306	254	DWG05	3	8	UNEK2121U		
	UNEK2125U	A	CSIR	7,28	12,4	1/2-	363	250	1,88	1,45	177	203	205	0,99		247	306	378	466	668	0,6	3/8	1/4	230	5/31°	1	420	16,6	435	306	254	DWG05	3	9	UNEK2125U		
	UNEK2134U	A	CSIR	10,00	13,1	1/2+	504	324	2,08	1,56	228	288	285	1,01		340	425	526	643	782	1,1	3/8	1/4	254	5/28°	1	595	18,6	465	340	296	DWG06	3	11	UNEK2134U		
	UNEK2150U	A	CSIR	13,54	19,5	1/2+	648	417	3,23	1,55	256	332	343	0,97		426	543	680	832	1008	1,1	3/8	1/4	254	5/28°	1	595	21,6	465	340	296	DWG06	3	11	UNEK2150U		
	UNEK2160U	A	CSR	16,80	18,0	3/4	785	507	2,78	1,55	312	405	383	1,06		508	642	793	971	1165	1,1	3/8	1/4	254	5/28°	1	595	21,6	465	340	296	DWG06	3	11	UNEK2160U		
	UNEU2155U	A	CSR	13,54	17,1	3/4	674	440	2,80	1,53	290	370	320	1,16		465	570	708	850	1025	1,1	3/8	1/4	254	5/28°	1	595	20,9	465	340	296	DWG13	3	11	UNEU2155U		
	UNEU2168U	A	CSR	16,80	21,0	3/4	832	555	3,45	1,50	372	471	405	1,16		585	714	856	1014	1186	1,1	3/8	1/4	254	5/28°	1	595	24,5	494	340	296	DWG12	4	11	UNEU2168U		
UNT	UNT2170U	A	CSR	20,40	25,0	3/4	949	574	3,12	1,65	415	536	465	1,15		670	816	974	1146	1329	1,15	3/8	1/4	254	5/28°	1	595	26,8	474	348	296	DWG17	4	11	UNT2170U		
	UNT2180U	A	CSIR	22,40	35,0	1	1030	695	4,90	1,48	436	564	505	1,12		705	859	1027	1209	1404	1,15	3/8	1/4	254	5/28°	1	595	28,6	474	348	296	DWG17	4	11	UNT2180U		
	UNT2210U	A	CSR	27,80	33,0	1 1/4	1311	830	4,75	1,58	552	720	687	1,05		877	1103	1370	1632	1964	2,3	3/8	1/4	275	5/31°	1	800	16,8	470	395	324	DWG15	3	12	UNT2210U		

Notes:
Expansion device C/V
Fan is according EN60335-2-89 and EN 60079-15

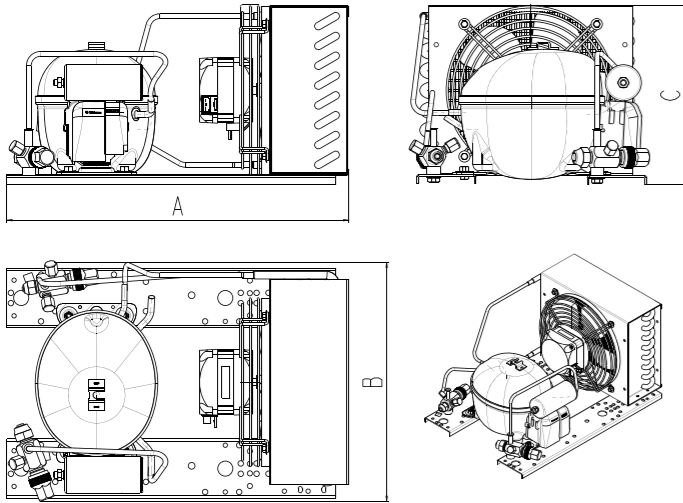
R290 • MBP • 50Hz

SERIES	MODEL	VOLTAGE & FREQUENCY CODE	MOTOR TYPE	DISPL. cm ³	LRA A	HP	PERFORMANCE DATA ASHRAE				PERFORMANCE DATA EN13215											RECEIVER VOLUME liter	VALVE CONNECTION EXTERNAL DIAMETER		FAN				WEIGHT (REFERENCE ONLY) kg	OVERALL DIMENSIONS			CONDENSER		MODEL		
							EVAPORATING TEMPERATURE °C																SUCTION inch	LIQUID inch	EXTERNAL DIAMETER mm	NO. / ANGLE OF BLADES	NO. OF FANS	AIR FLOW RATE m ³ /h		A mm	B mm	C mm	EXT. VIEW REF.	NO. OF ROWS		NO. OF TUBES	
							RATED POINT 7,2 °C				-20 W	-15 W	RATED POINT -10 °C				-5 W	0 W	5 W	10 W																	
							COOLING W	POWER INPUT W	CURRENT A	EFFICIENCY W/W			COOLING W	POWER INPUT W	EFFICIENCY W/W																						
UEMT	UEMT6144U	A	CSIR	4,50	7,7	1/4	644	299	1,51	2,15	277	336	400	188	2,13		470	540	623	707	0,6	3/8	1/4	200	5/28°	1	300	17,1	430	308	226	DWG02	3	8	UEMT6144U		
	UEMT6152U	A	CSIR	5,20	8,5	1/4	688	336	1,73	2,05	324	391	464	208	2,23		533	619	727	855	1,1	3/8	1/4	200	5/28°	1	300	17,1	430	308	226	DWG02	3	8	UEMT6152U		
	UEMT6165U	A	CSIR	5,96	10,4	1/3-	790	375	1,95	2,11	345	414	490	251	1,95		575	668	770	880	1,1	3/8	1/4	200	5/28°	1	420	16,5	435	308	254	DWG03	3	9	UEMT6165U		
UNE	UNEK6181U	A	CSIR	7,28	12,0	1/3	835	395	2,54	2,11	333	420	509	302	1,69		601	695	791	890	1,1	3/8	1/4	200	5/28°	1	300	23,8	467	339	296	DWG08	3	11	UNEK6181U		
	UNEK6210U	A	CSIR	8,78	16,0	1/3	1120	471	3,08	2,38	466	559	664	377	1,76		782	911	1053	1208	1,1	3/8	1/4	254	5/28°	1	595	23,8	467	339	296	DWG08	3	11	UNEK6210U		
	UNEK6213U	A	CSIR	12,12	19,3	1/3+	1328	732	4,60	1,81	475	592	741	512	1,45		869	1031	1212	1413	1,1	3/8	1/4	254	5/28°	1	595	23,9	467	339	296	DWG08	3	11	UNEK6213U		
	UNEU6210U	A	CSIR	8,78	20	1/2-	1202	459	3,33	2,62	420	553	686	373	1,84		817	948	1077	1205	1,1	3/8	1/4	254	5/28°	1	595	22,7	467	339	296	DWG08	3	11	UNEU6210U		
	UNEU6217U	A	CSIR	14,30	21,0	1/2+	1962	786	4,20	2,50	801	959	1132	579	1,96		1321	1527	1748	1985	2,3	3/8	3/8	254	5/28°	1	595	23,9	467	339	296	DWG08	3	11	UNEU6217U		
UNT	UNT6217U	A	CSIR	14,50	25,0	1/2+	1694	707	4,56	2,40	527	659	821	546	1,50		1016	1248	1521	1840	2,3	3/8	3/8	275	5/31°	1	640	33,3	470	395	324	DWG19	3	12	UNT6217U		
	UNT6220U	A	CSIR	17,40	29,0	2/3	2115	1000	5,30	2,12	786	965	1166	656	1,78		1388	1632	1898	2185	2,3	3/8	3/8	275	5/31°	1	640	30,8	470	395	324	DWG19	3	12	UNT6220U		
	UNT6222U	A	CSIR	20,40	29,0	3/4	2294	1194	7,10	1,92	944	1155	1388	837	1,66		1643	1920	2219	2541	2,3	3/8	3/8	275	5/31°	1	640	31,0	470	395	324	DWG19	3	12	UNT6222U		
	UNT6224U	A	CSR	22,40	26,0	1	2973	1030	4,90	2,89	1109	1354	1558	835	1,87		1863	2200	2590	3021	2,3	1/2	3/8	275	5/31°	1	640	33,2	470	395	324	DWG15	3	12	UNT6224U		
	UNT6230U	A	CSR	27,80	39,0	1 1/4	3368	1380	6,90	2,44	1403	1602	1855	1064	1,74		2163	2525	2942	3414	2,3	1/2	3/8	300	5/28°	1	700	35,7	485	405	372	DWG16	3	14	UNT6230U		

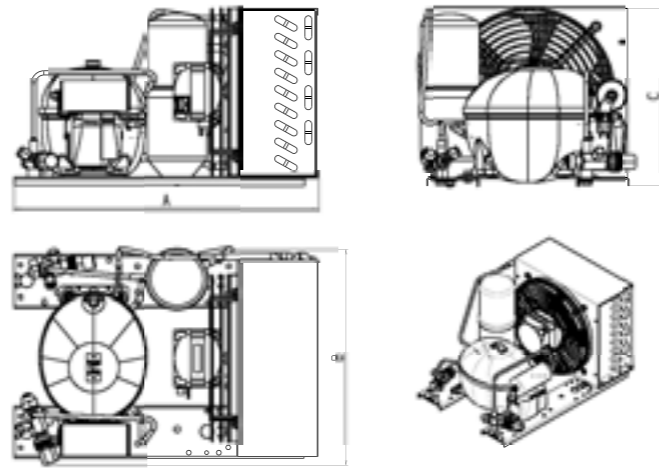
Notes:
Expansion device C/V
Fan is according EN60335-2-89 and EN 60079-15

EXTERNAL VIEWS - UEMT

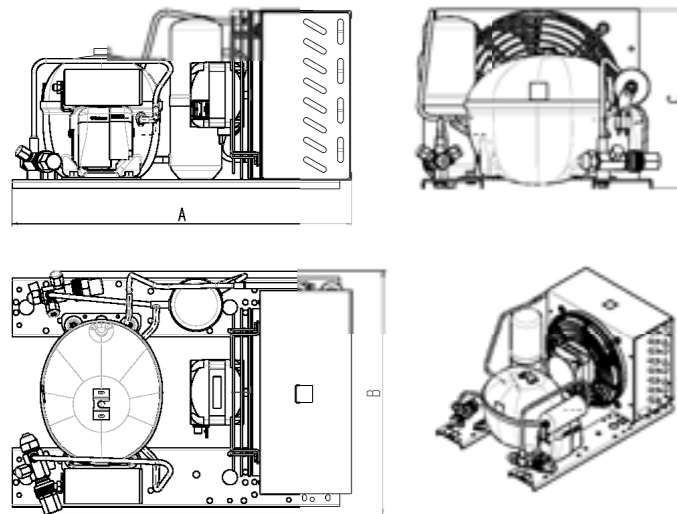
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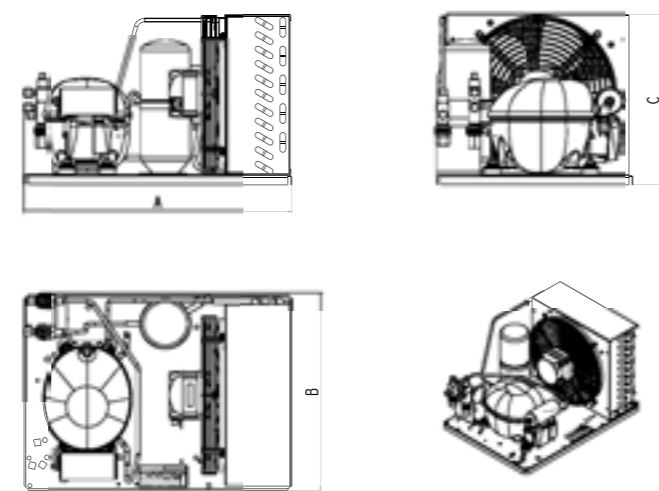
DWG03



DWG02

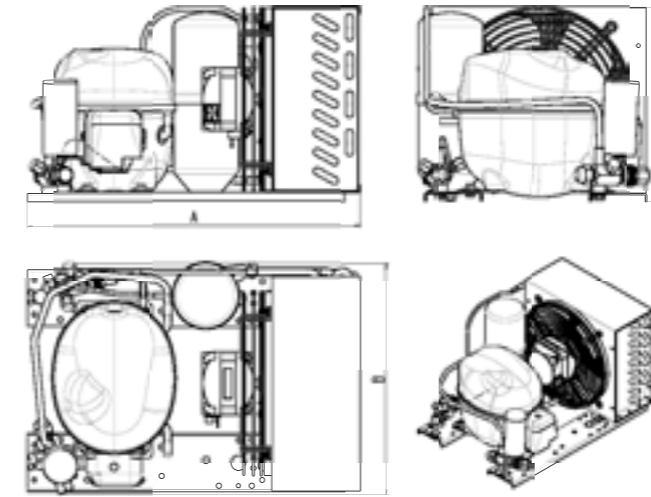


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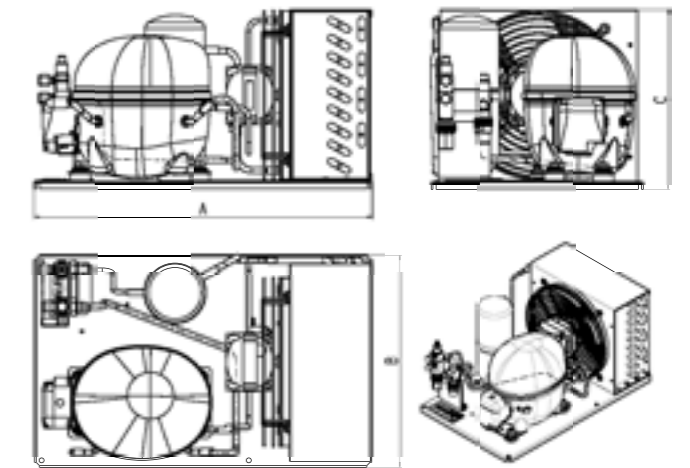


EXTERNAL VIEWS UNE/UNEK/UNEU

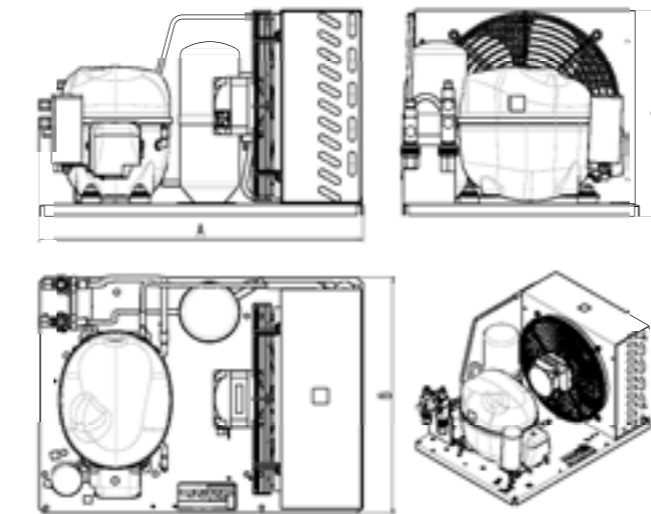
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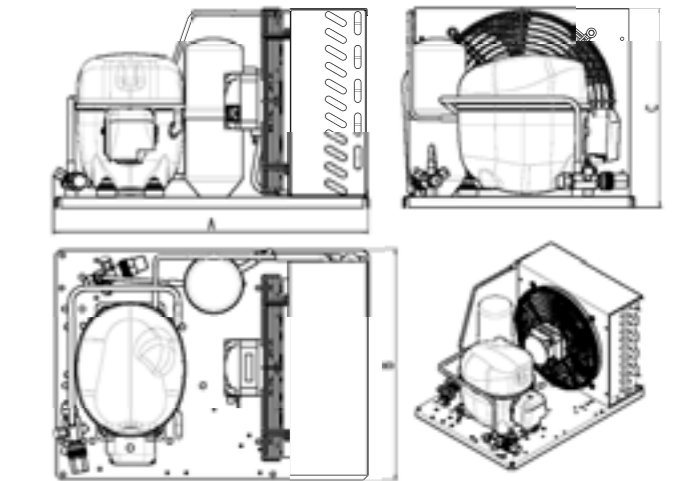
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DWG06

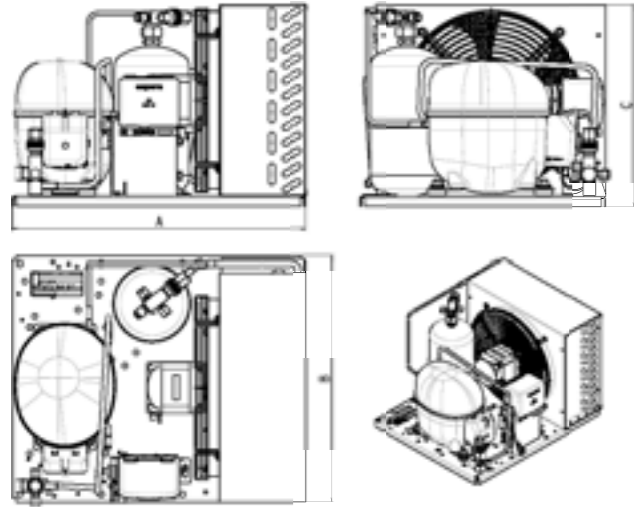


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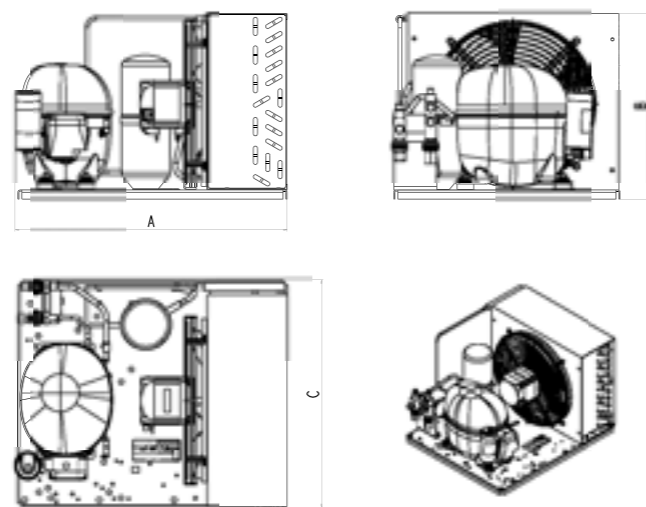


EXTERNAL VIEWS UNE/UNEK/UNEU

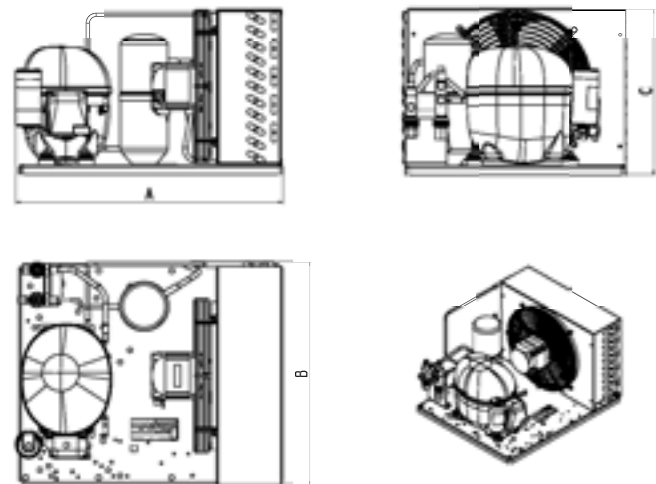
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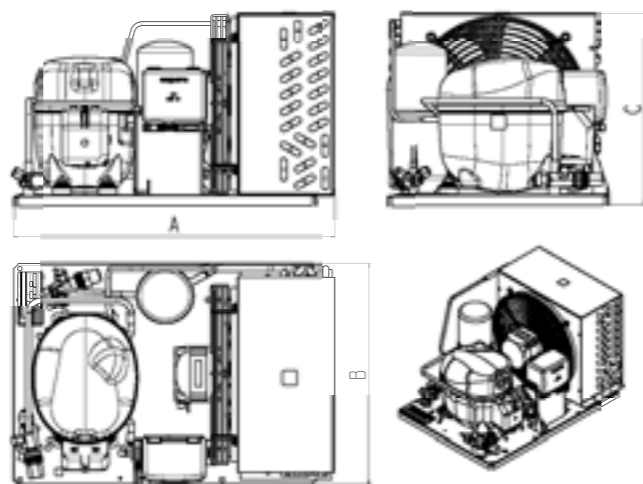
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DWG10

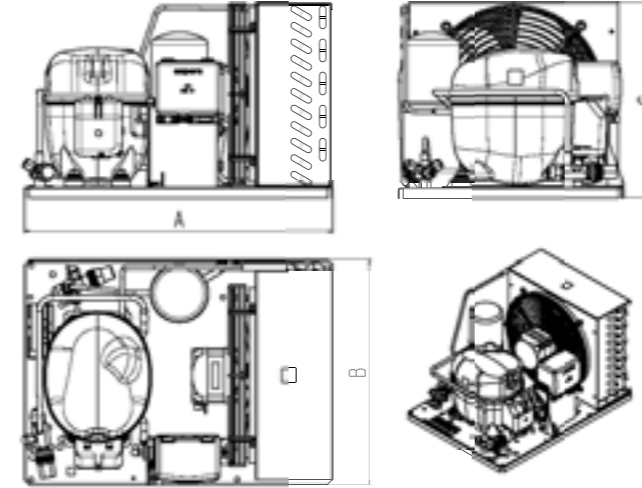


DWG12



EXTERNAL VIEWS UNE/UNEK/UNEU

DWG13



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