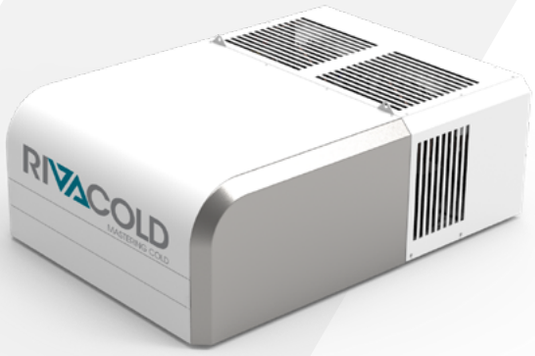
MONOBLOCCHI PER CELLE FRIGORIFERE
PACKAGED UNITS FOR COLD ROOM

INSTALLAZIONE A SOFFITTO - SISTEMI WATER LOOP
CEILING MOUNT INSTALLATION - WATER LOOP SYSTEMS



BE BEST CM WL

SUPERMERCATO
SUPERMARKET

CELLE FRIGORIFERE
COLD ROOMS

GREEN SOLUTIONS

REFRIGERANTE NATURALE
NATURAL REFRIGERANT

RISPARMIO ENERGETICO
ENERGY SAVING

CONDENSAZIONE AD ACQUA
WATER CONDENSATION

COMPRESSORE ERMETICO
HERMETIC COMPRESSOR

EASY FIX
EASY FIX

R290	MBP/HBP	LBP
CAMPO DI ESERCIZIO (Tc)* OPERATING RANGE (Tc)*	-5°C / +15°C	-25°C / -10°C
SPOSTAMENTO VOLUME COMPRESSORE COMPRESSOR DISPLACEMENT	7.3 cm^3 ÷ 3 x 27.8 cm^3	18.7 cm^3 ÷ 3 x 33.4 cm^3
VOLUME CELLA** COLD ROOM VOLUME**	3.8 m^3 ÷ 315 m^3	3.6 m^3 ÷ 143 m^3

(*) Campo di esercizio Tc +15°C disponibile da T_{H_2O} +10°C a +43°C / Operanting range Tc +15°C available from T_{H_2O} +10°C to +43°C
(**)T_{H_2O}: +37°C, Ta: +32°C

CARATTERISTICHE GENERALI

La gamma BEST CM WL, monoblocchi a soffitto con condensazione ad acqua a R290, offre una soluzione eco-sostenibile a lungo termine che unisce i vantaggi del sistema *water loop* agli elevati standard di design, connettività e sicurezza della gamma BEST Rivacold. La soluzione tecnica degli scambiatori a piastre contribuisce a massimizzare la resa (riduzione delle perdite di carico) e allo stesso tempo, limitare la carica di refrigerante necessaria (massimo 150g per circuito) in modo da permettere l'installazione in ambienti occupati senza alcuna restrizione. La condensazione libera garantisce una riduzione dei consumi su base annua e un aumento della resa. Inoltre, questi prodotti utilizzano compressori ad alta efficienza, motoventilatori elettronici, valvola termostatica e sistema di sbrinamento a gas caldo che si traducono in prestazioni eccellenti. La nuova elettronica RIV-OLUTION e il nuovo software sviluppato internamente, con la funzione SMART DEFROST, garantiscono massima precisione e stabilità nella regolazione della temperatura e un significativo risparmio energetico.

GENERAL FEATURES

The BEST CM WL range, water-cooled ceiling packaged units R290, offers a long-term eco-sustainable solution that combines the advantages of the *water loop* system with the high standards of design, connectivity and safety of BEST Rivacold range. The technical solution of plate heat exchangers helps to maximize the capacity (reduction of pressure drops) and at the same time, limit the refrigerant charge required (maximum 150g per circuit) so as to allow installation in occupied environments without any restrictions. Free condensation ensures a reduction in consumption on an annual basis and a capacity increase. In addition, these products use high efficiency compressors, electronic fan motors, thermostatic valve and hot gas defrost system which result in excellent performance. The new RIV-OLUTION electronics and the new internally developed software, with SMART DEFROST function, guarantee maximum precision and stability in temperature regulation and a significant energy saving.

RIVACOLD
MASTERING COLD

DATI TECNICI MODELLI HBP/MBP E LBP - HBP/MBP AND LBP MODELS TECHNICAL DATA

R290	POWER SUPPLY	COMPRESSOR		PED	EXPANSION	DEFROST	ABSORPTION(1)		INDUSTRIAL PLUG (2P+E)	WATER FLOW (4)	PRESSURE DROP(4)	WASTE HEAT(3)	EVAPORATOR			NET WEIGHT
		cm³	type	CAT			W	A	A	lt/h	kPa	W	No. x Ø	m³/h	f(m)	Kg
BEC1301MW05P11	230/1/50	7.28	E	0	V	G	380	2.1	16	350	40	1050	1x300	750	3	65
BEC1301MW07P11	230/1/50	9.99	E	0	V	G	510	2.8	16	350	40	1350	1x300	750	3	66
BEC1301MW10P11	230/1/50	12.10	E	0	V	G	555	3.0	16	350	40	1550	1x300	750	3	66
BEC1301MW20P11	230/1/50	16.80	E	0	V	G	750	4.1	16	400	50	2000	1x300	750	3	66
BEC2301MW30P11	230/1/50	21.00	E	0	V	G	930	5.1	16	400	50	2500	2x300	1300	4.5	90
BEC2301MW40P11	230/1/50	27.80	E	0	V	G	1160	6.3	16	500	60	3000	2x300	1300	4.5	97
BEC2302MW50P11	230/1/50	2 x 16.8	E	0	V	G	1430	7.8	16	800	40	4000	2x300	1150	4	110
BEC2302MW50P12	400/3/50	2 x 16.8	E	0	V	G	1430	2.6	16(2)	800	40	4000	2x300	1150	4	110
BEC2302MW60P11	230/1/50	2 x 21	E	0	V	G	1750	9.5	16	800	40	4700	2x300	1150	4	110
BEC2302MW60P12	400/3/50	2 x 21	E	0	V	G	1750	3.2	16(2)	800	40	4700	2x300	1150	4	110
BEC2302MW70P11	230/1/50	2 x 27.8	E	0	V	G	2200	12.0	16	1000	50	5700	2x300	1150	4	124
BEC2302MW70P12	400/3/50	2 x 27.8	E	0	V	G	2200	4.0	16(2)	1000	50	5700	2x300	1150	4	124
BEC2353MW80P12	400/3/50	3 x 21	E	0	V	G	2590	4.7	16(2)	1200	50	7100	3x300	2300	5	172
BEC2353MW90P12	400/3/50	3 x 27.8	E	0	V	G	3270	5.9	16(2)	1500	60	8600	3x300	2300	5	193
BEC1301LW10P11	230/1/50	18.7	E	0	V	G	575	3.1	16	350	40	1250	1x300	750	3	67
BEC1301LW20P11	230/1/50	27.8	E	0	V	G	790	4.3	16	350	40	1750	1x300	750	3	74
BEC2301LW30P11	230/1/50	33.4	E	0	V	G	985	5.4	16	400	50	2100	2x300	1300	4.5	98
BEC2302LW40P11	230/1/50	2 x 21	E	0	V	G	1190	6.5	16	700	35	2850	2x300	1150	4	111
BEC2302LW40P12	400/3/50	2 x 21	E	0	V	G	1190	2.2	16(2)	700	35	2850	2x300	1150	4	111
BEC2302LW50P11	230/1/50	2 x 27.8	E	0	V	G	1520	8.3	16	700	35	3450	2x300	1150	4	125
BEC2302LW50P12	400/3/50	2 x 27.8	E	0	V	G	1520	2.7	16(2)	700	35	3450	2x300	1150	4	125
BEC2302LW60P11	230/1/50	2 x 33.42	E	0	V	G	1860	10.1	16	800	40	4000	2x300	1150	4	125
BEC2302LW60P12	400/3/50	2 x 33.42	E	0	V	G	1860	3.4	16(2)	800	40	4000	2x300	1150	4	125
BEC2353LW70P12	400/3/50	3 x 27.8	E	0	V	G	2245	4.1	16(2)	1000	40	5250	3x300	2300	5	194
BEC2353LW80P12	400/3/50	3 x 33.42	E	0	V	G	2755	5.0	16(2)	1200	50	6050	3x300	2300	5	194

(1) HBP/MBP: Te -10°C ; Tcond +50°C LBP: Te -30°C ; Tcond +50°C
(2) Spina Industriale 3P + N + E; Industrial Plug 3P + N + E
(3) HBP/MBP: Tc= 0°C ; Tin_H_2O +37° C; LBP: Tc=-20°C ; Tin_H_2O +37° C

(4) Correction factor for glycol

Glycol Concentration	10 %	20 %	30 %	40 %
Flow Rate	1.038	1.076	1.121	1.173
Pressure Drop	1.097	1.200	1.324	1.483

TABELLA RESE R290 MBP/HBP - R290 MBP/HBP PERFORMANCE TABLE

R290 CODE	Capacity T_{H_2O} +5°C								Capacity T_{H_2O} +37°C								Capacity T_{H_2O} +48°C							
	Tc -5°C		Tc 0°C		Tc +5°C		Tc +15°C		Tc -5°C		Tc 0°C		Tc +5°C		Tc +15°C		Tc -5°C		Tc 0°C		Tc +5°C		Tc +15°C	
	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³
BEC1301MW05P11	888	6.2	1023	9.1	1169	14.6	-	-	612	3.8	725	5.9	849	9.3	1131	29.8	526	3.1	626	4.9	737	7.7	-	-
BEC1301MW07P11	1078	7.9	1244	11.7	1421	19.7	-	-	813	5.5	955	8.4	1109	13.4	1454	40.9	710	4.6	839	7.1	980	11.1	-	-
BEC1301MW10P11	1230	9.3	1411	14.4	1612	23.2	-	-	922	6.5	1079	9.8	1252	16.4	1637	47.4	808	5.5	950	8.3	1106	13.3	-	-
BEC1301MW20P11	1497	11.9	1730	19.7	1983	30.4	-	-	1173	8.8	1363	13.6	1568	22.4	2025	61.3	1042	7.6	1213	11.3	1399	19.3	-	-
BEC2301MW30P11	1857	17.3	2140	26.1	2451	39.7	-	-	1458	11.5	1695	19.2	1953	29.8	2524	79.8	1293	9.9	1506	16.1	1736	25.6	-	-
BEC2301MW40P11	2245	22.4	2592	33.3	2964	50.2	-	-	1753	15.7	2031	24.3	2331	37.3	2995	97.8	1555	12.8	1809	20.9	2084	32.3	-	-
BEC2302MW50P11	3028	33	3497	48.5	4005	72.3	-	-	2374	24.1	2757	36	3170	54.5	4088	140	2109	20.6	2455	31.1	2829	47.4	-	-
BEC2302MW50P12	3028	33	3497	48.5	4005	72.3	-	-	2374	24.1	2757	36	3170	54.5	4088	140	2109	20.6	2455	31.1	2829	47.4	-	-
BEC2302MW60P11	3500	39.6	4007	57.3	4564	84.5	-	-	2765	29.4	3201	43.5	3673	65.2	4714	165	2460	25.2	2856	37.7	3284	56.9	-	-
BEC2302MW60P12	3500	39.6	4007	57.3	4564	84.5	-	-	2765	29.4	3201	43.5	3673	65.2	4714	165	2460	25.2	2856	37.7	3284	56.9	-	-
BEC2302MW70P11	4182	49.5	4801	71.3	5462	104	-	-	3301	36.8	3807	53.8	4351	79.8	5544	198	2938	31.7	3404	46.9	3907	70.2	-	-
BEC2302MW70P12	4182	49.5	4801	71.3	5462	104	-	-	3301	36.8	3807	53.8	4351	79.8	5544	198	2938	31.7	3404	46.9	3907	70.2	-	-
BEC2353MW80P12	5303	66.1	6075	94.3	6922	138	-	-	4186	49.5	4847	72.1	5564	107	7144	262	3722	42.8	4323	62.8	4970	93.4	-	-
BEC2353MW90P12	6347	82	7290	117	8295	169	-	-	5002	61.6	5771	88.8	6598	130	8410	314	4451	53.4	5158	77.7	5921	115	-	-

TABELLA RESE R290 LBP - R290 LBP PERFORMANCE TABLE

R290 CODE	Capacity T_{H_2O} +5°C								Capacity T_{H_2O} +37°C								Capacity T_{H_2O} +48°C							
	Tc -25°C		Tc -20°C		Tc -15°C		Tc -10°C		Tc -25°C		Tc -20°C		Tc -15°C		Tc -10°C		Tc -25°C		Tc -20°C		Tc -15°C		Tc -10°C	
	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³
BEC1301LW10P11	818	5.3	986	8,2	1173	13	1377	23.5	618	3.6	751	5.5	900	8.7	1063	14.8	541	2.9	660	4.6	792	7.2	938	11.4
BEC1301LW20P11	1099	8	1299	12	1520	21.3	1760	34.6	840	5.5	1012	8.5	1201	13.7	1407	24.4	728	4.5	886	7	1060	10.9	1247	20.1
BEC2301LW30P11	1343	10.6	1587	18.3	1859	29.1	2157	47.2	1004	7.1	1201	10.7	1418	19.1	1656	31.5	876	5.8	1055	9	1252	15.1	1466	26
BEC2302LW40P11	1890	19,8	2213	30.6	2584	47.8	3000	76.2	1405	11.3	1705	20.5	2040	33.7	2406	55.4	1223	9.3	1499	16.6	1803	27.8	2134	46.4
BEC2302LW40P12	1890	19.8	2213	30.6	2584	47.8	3000	76.2	1405	11.3	1705	20.5	2040	33.7	2406	55.4	1223	9.3	1499	16.6	1803	27.8	2134	46.4
BEC2302LW50P11	2221	25.5	2625	39.4	3071	61.2	3555	96.7	1699	16.7	2048	27.2	2430	43.7	2843	70.6	1474	12.2	1794	22.2	2144	36.3	2523	59.4
BEC2302LW50P12	2221	25.5	2625	39.4	3071	61.2	3555	96.7	1699	16.7	2048	27.2	2430	43.7	2843	70.6	1474	12.2	1794	22.2	2144	36.3	2523	59.4
BEC2302LW60P11	2561	31.5	3010	48.1	3505	73.8	4043	115	1920	20.3	2290	32.2	2694	50.7	3132	81	1678	16.2	2017	26.5	2385	42.5	2784	68.5
BEC2302LW60P12	2561	31.5	3010	48.1	3505	73.8	4043	115	1920	20.3	2290	32.2	2694	50.7	3132	81	1678	16.2	2017	26.5	2385	42.5	2784	68.5
BEC2353LW70P12	3359	46.7	3973	71.1	4649	109	5384	170	2567	31.6	3094	50	3672	78.7	4297	125	2225	25.5	2709	41.3	3238	66	3810	106
BEC2353LW80P12	3879	57.2	4563	85.9	5315	130	6135	202	2907	37.9	3467	58.8	4079	91	4745	143	2539	31.1	3052	49	3610	76.9	4214	122

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