

GREEN SOLUTIONS



GAS
NATURALE
NATURAL
GAS



RISPARMIO
ENERGETICO
EFFICIENCY
ENERGY



BASSA
RUMOROSITÀ
LOW
NOISE



MEDIA
TEMPERATURA
MEDIUM
TEMPERATURE



BASSA
TEMPERATURA
LOW
TEMPERATURE

R744	TS	TB/TBP
	MBP	MBP/LBP
Campo di esercizio (Te) <i>Operating range (Te)</i>	-10°C	-10°C / -35°C
Potenza frigorifera <i>Refrigerating capacity</i>	20 ÷ 150 kW	20 ÷ 152 kW/ 5÷ 33kW



CARATTERISTICHE GENERALI

Grazie all'esperienza acquisita negli anni, Rivacold propone tre gamme di centrali multi-compressore a CO2 con soluzioni tecnologiche all'avanguardia per garantire prestazioni elevate, risparmio energetico, rispetto dell'ambiente e massima efficienza con ogni tipo di clima.

Le tre gamme possono essere realizzate con compressori semiermetici Bitzer, Dorin e Frascold:

- Centrali transcritiche semplici
- Centrali booster
- Centrali booster a compressione parallela.

GENERAL FEATURES

Thanks to the experience gained in several years, Rivacold offers three series of CO2 multi-compressor packs with cutting-edge technology solutions for high performance, energy saving, attention to the environment and maximum efficiency in all types of weather.

The three ranges can be manufactured with Bitzer, Dorin and Frascold semi-hermetic compressors:

- Single temperature transcritical pack
- Booster systems
- Booster system with parallel compressors

CENTRALI TRANSCRITICHE CO2 MEDIA TEMPERATURA

TRANSCRITICAL CO2 MULTICOMPRESSOR PACK FOR MEDIUM TEMPERATURE

RIVACOLD
MASTERING COLD

Reference		[-]	TS30_0	TS60_0	TS80_0	TS150_0
Refrigerant Code	MT	[-]	R744- CO2	R744- CO2	R744- CO2	R744- CO2
	Name	[-]	TB0M017L000X00200	TB0M033L000X00200	TB0M048L000X00200	TB0M069L000X00200
Compressors MT	Q.ty	[nr]	3	3	3	3
	Model	[-]	4PTC-7K + 2x4MTC-7K	4JTC-15K + 2x4HTC-15K	4HTC-20K + 2x4FTC-20K	4FTC-30K + 2x4CTC-30K
	Motor	[HP]	7	15	20-20	30
Remote Gas cooler	Type	[-]	with EC fan motors	with EC fan motors	with EC fan motors	with EC fan motors
	Model	[-]	RRCX025004VB	RRCX026304VB	RRCX038004SB	RRCX048004SBW
	No. Fan motors	[-]	2	2	3	4
	Diameter	[mm]	500	630	800	800
Electrical absorption*	Fan motors max speed	[rpm]	1420	1510	925	925
	Absorbed power MT	[kW]	20,7	39,8	58,4	87,7
	Absorbed current MT	[A]	36,9	69,9	98,3	150,6
Refrigeration*	Refrigerant capacity MT *(TeTN =-10°C)	[kW]	32,5	65,4	96,7	152,9
Liquid receiver	Volume	[l]	145	145	145	2x145
PED	Category	[-]	1	4	4	4
Piping	MT suction	[mm]	17,2	21,3	26,9	33,7
	Gas cooler inlet	[mm]	17,2	21,3	26,9	33,7
	Gas cooler outlet	[mm]	17,2	21,3	26,9	33,7
	Liquid line	[mm]	17,2	21,3	26,9	33,7
Dimensions	L	[mm]	3800	3800	3800	3800
	P	[mm]	890	890	890	1180
	H	[mm]	2310	2310	2310	2310
24h average LpA 10m (dBA)	Without housing	[dBA]	56,5	58	59	60
	Only housing	[dBA]	50,5	52	53	54
	Housing and standard insulation	[dBA]	48,5	50	51	52
	Housing and plus insulation	[dBA]	44,5	46	47	48



* First compressor with inverter - Ambient temperature +32°C - Gascooler outlet +35°C - Intermediate pressure 35bar

Reference	[-]	TB15_5	TB30_10	TB60_15	TB120_25	
Refrigerant	TN	[-]	R744- CO2	R744- CO2	R744- CO2	R744- CO2
	BT	[-]	R744- CO2	R744- CO2	R744- CO2	R744- CO2
Code	Name	[-]	TB0M011L003X00200	TB0M023L007X00200	TB0M053L013X00200	TB0M071L015X00200
Compressors MT	Q.ty	[nr]	2	3	3	4
	Model	[-]	4PTC-7K-4MTC-7K	4KTC-10K-2x4MTC-7K	4FTC-30K-2x4FTC-20K	4FTC-30K-3x4FTC-20K
	Motor	[HP]	7	10-7	30+20	30+20
Compressors LT	Q.ty	[nr]	2	2	2	3
	Model	[-]	2MSL-07K	2JSL-2K	2FSL-4K	2GSL-3K
	Motor	[HP]	0.7	2	4	3
Remote Gas cooler	Type	[-]	with EC fan motors	with EC fan motors	with EC fan motors	with EC fan motors
	Model	[-]	RRCX025004VB	RRCX026305SB	RRCX038005SB	RRCX048005SBW
	No.Fan motors	[-]	2	2	3	4
	Diameter	[mm]	500	630	800	800
Electrical absorption*	Fan motors max speed	[rpm]	1420	1080	925	925
	Absorbed power LT	[kW]	1.4	2,5	4.9	5.9
	Absorbed current LT	[A]	4.2	6	11.2	15.3
	Absorbed power MT	[kW]	14.3	26,6	66.5	91.5
Refrigeration*	Absorbed current MT	[A]	26	45,3	113.7	155.9
	Refrigerant capacity MT *TeTN = -10°C	[kW]	15.5	30,7	85.8	123.3
Liquid receiver	Refrigerant capacity LT *TeBT = -35°C	[kW]	5.6	10,0	22.1	25.8
	Volume	[l]	60	145	145	2x145
PED	Category	[-]	3	4	4	4
Piping	MT suction	[mm]	12	17,2	26.9	33.7
	LT suction	[mm]	10	16	22	22
	Gas cooler inlet	[mm]	17.2	21,3	26.9	33.7
	Gas cooler outlet	[mm]	12	17,2	26.9	33.7
	Liquid line	[mm]	12	17,2	26,9	33,7
Dimensions	L	[mm]	3800	3800	3800	5000
	P	[mm]	780	890	890	1180
	H	[mm]	2310	2310	2310	2310
24h average LpA 10m (dBA)	Without housing	[dBA]	54.5	57	59.5	60.5
	Only housing	[dBA]	48.5	51	53.5	54.5
	Housing and standard insulation	[dBA]	46.5	49	51.5	52.5
	Housing and plus insulation	[dBA]	42.5	45	47.5	48.5

* First compressor with inverter - Ambient temperature +32°C - Gascooler outlet +35°C - Intermediate pressure 35bar

CENTRALI MULTICOMPRESSORE CO2 TRANSCRITICA BOOSTER COMPRESSIONE PARALLELA
CO2 TRANSCRITICAL BOOSTER MULTICOMPRESSOR PACKSWITH PARALLEL COMPRESSION



Reference		[-]	TBP15_5	TBP30_10	TBP60_15	TBP120_25	TBP120_25
Refrigerant	TN	[-]	R744- CO2	R744- CO2	R744- CO2	R744- CO2	R744- CO2
	BT	[-]	R744- CO2	R744- CO2	R744- CO2	R744- CO2	R744- CO2
Code	Name	[-]	TBPM022L007X00200	TBPM032L009X00200	TBPM045L013X00200	TBPM064L015X00200	TBPM064L015X00200
	Q.ty	[nr]	3	3	3	3	3
Compressors MT	Model	[-]	4PTC-7K + 2x4MTC-7K	4JTC-15K + 2x4JTC-10K	4HTC-20K + 2x4HTC-15K	4FTC-30K + 2x4FTC-20K	4FTC-30K + 2x4FTC-20K
	Motor	[HP]	7	15-10	20-15	30-20	30-20
	Q.ty	[nr]	1	1	2	2	2
Compressors LT	Model	[-]	4PTC-7K	4PTC-7K	2 x 4PTC-7K	4PTC-7K + 4MTC-10K	4PTC-7K + 4MTC-10K
	Motor	[HP]	7	7	7	7+10	7+10
	Q.ty	[nr]	2	2	2	3	3
Compressors P	Model	[-]	2JSL-2K	2HSL-3K	2FSL-4K	2GSL-3K	2GSL-3K
	Motor	[HP]	2	3	4	3	3
	Type	[-]	with EC fan motors	with EC fan motors	with EC fan motors	with EC fan motors	with EC fan motors
Remote Gas cooler	Model	[-]	RRCX026304SB	RRCX028005SB	RRCX038004SB	RRCX048005SB	RRCX048005SB
	No. Fan motors	[-]	2	2	3	3	3
	Diameter	[mm]	630	800	800	800	800
	Fan motors max speed	[rpm]	1080	925	925	925	925
	Absorbed power LT	[kW]	2.8	3.5	5.4	5.9	5.9
Electrical absorption*	Absorbed current LT	[A]	6.7	7.5	12.3	10.3	10.3
	Absorbed power MT	[kW]	20.7	64	43.6	66.5	66.5
	Absorbed current MT	[A]	36.9	59.4	75.4	113.7	113.7
	Absorbed power P	[kW]	5.1	6.2	11.3	14.6	14.6
	Absorbed current P	[A]	9.7	11.6	21.3	26.4	26.4
	Refrigeration*	Refrigerant capacity MT *TeTN = -10°C	[kW]	30.5	53.5	70.6	118.8
Refrigerant capacity LT *TeBT = -35°C		[kW]	11.1	15	24.3	25.8	25.8
Liquid receiver	Volume	[l]	145	145	145	2x145	2x145
PED	Category	[-]	4	4	4	4	4
Dimensions	L	[mm]	5000	5000	5000	5000	5000
	P	[mm]	1180	1180	1180	1180	1180
	H	[mm]	2310	2310	2310	2310	2310
24h average LpA 10m (dBA)	Without housing		58	58,5	60	60,5	60,5
	Only housing	[dBA]	52	52,5	54	54,5	54,5
	Housing and standard insulation	[dBA]	50	50,5	52	52,5	52,5
	Housing and plus insulation	[dBA]	46	46,5	48	48,5	48,5

* First compressor with inverter - Ambient temperature +32°C - Gascooler outlet +35°C - Intermediate pressure 35bar