



WATER COOLED - DOUBLE ZONE

50 Hz

TECHNICAL DATA

Microgel		RCD											
Model		40/12	60/12	80/12	100/24	130/24	170/24-L	170/24	210/24	300/48	350/48	450/48	
Cooling capacity	kW	7,3	10,5	16,1	20,4	26,7	34,2	34,2	41,9	55,8	69,8	89,1	
Heating capacity	kW	6 + 6			12 + 12				24 + 24				
Compressor	HP	3	4	6	7,5	10	13,5	13,5	15	20	25	30	
	type	scroll											
Recirculation pump	kW	0,37			0,55			1,1		1,1	1,5		
Standard process pump (**)	kW	0,75	1,5		1,8			3		5,5			
High pressure process pump (**)	kW	1,5			2,2			5,5		7,5			
Total Max Electrical Load and FLA	with Standard pump (SP)	kW	15	16	16	29	29	30	34	36	61	64	69
		A	24	27	30	47	49	51	55	60	96	105	115
	with High pressure pump (HP)	kW	16	16	16	30	30	32	39	41	65	68	73
		A	27	27	30	49	51	54	65	70	104	113	123
Compressed Air (Min 4 - Max 7.5 bar)					yes	yes	yes	yes	yes	yes	yes	yes	
Sound Level @ 10 mt.	dB (A)	39	39	39	39	40	40	40	41	41	41	41	
[*] Capacity with process water temperature = 10°C, DeltaT = 2°C, cooling water temperature = 35°C @ 2 bar = min pressure differ: Unit with two process pumps - Data for each pump - Supply : 400 V - 50 Hz													

Frigel Firenze S.p.A.

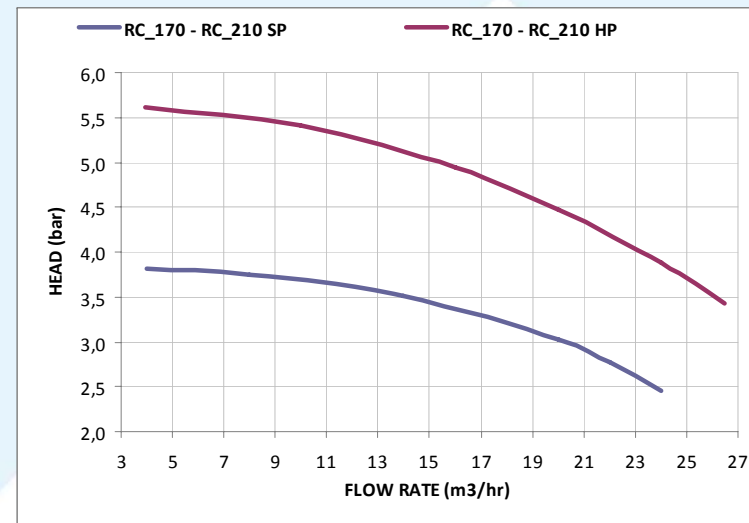
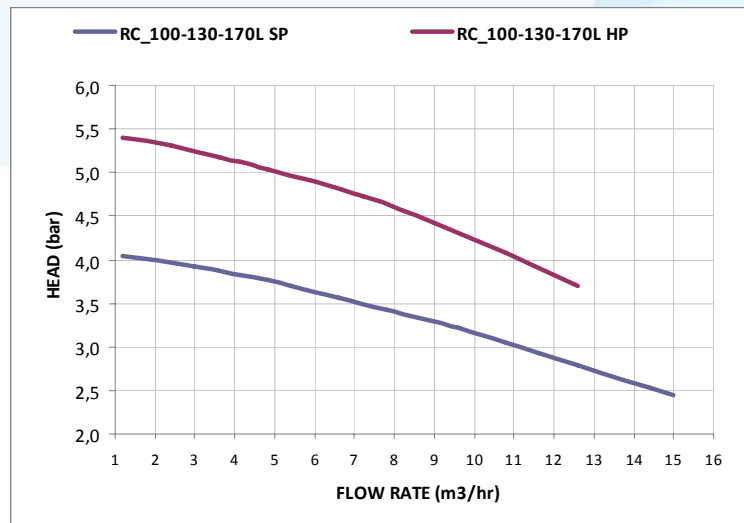
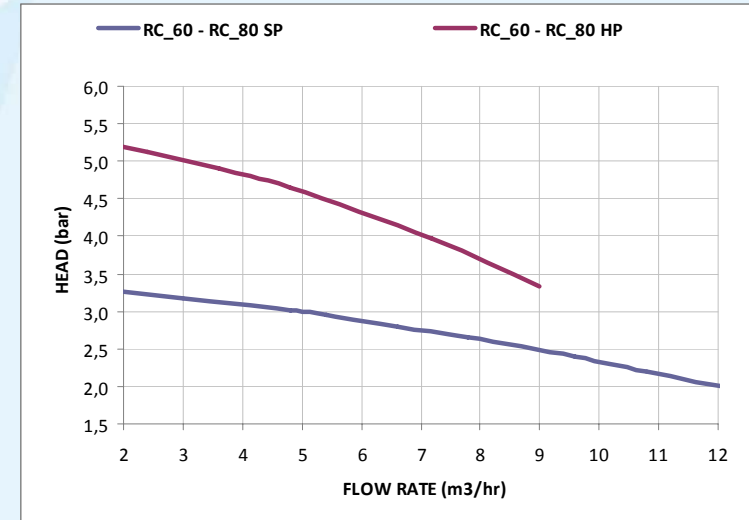
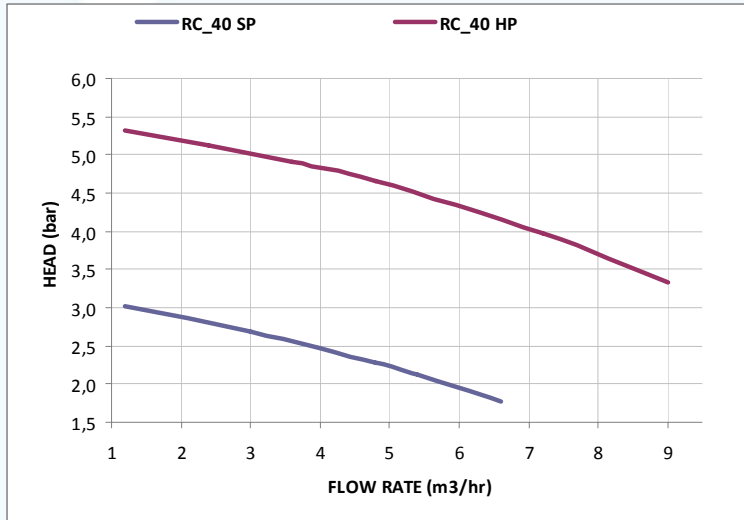
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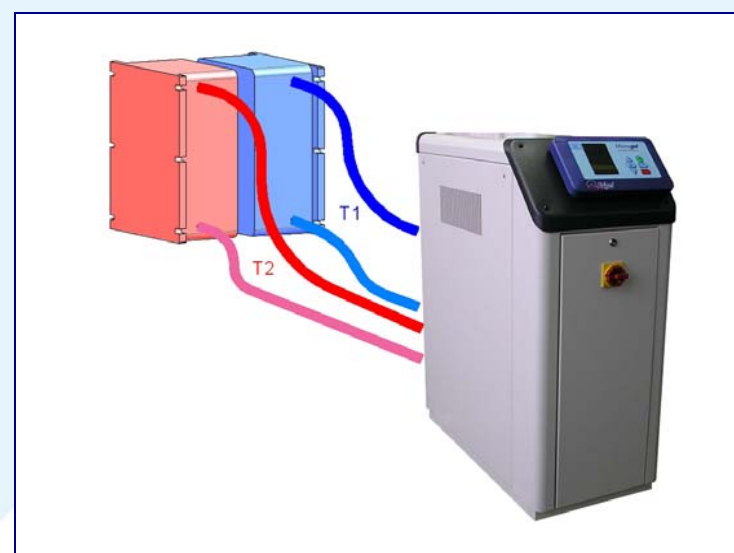
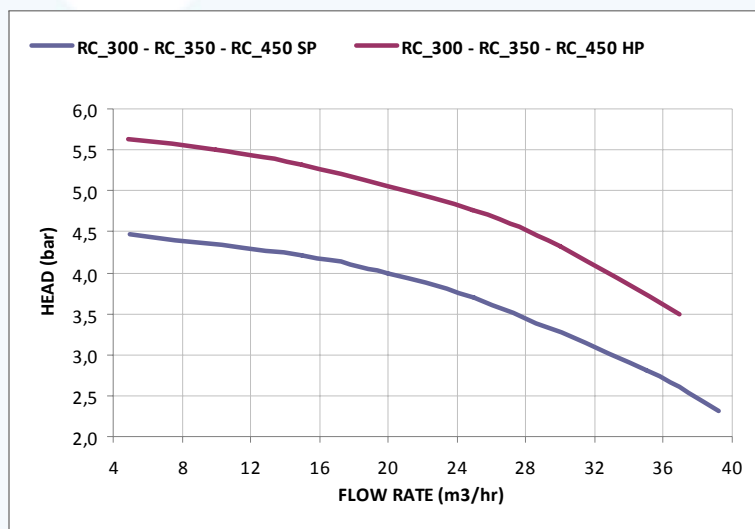
50 Hz PROCESS PUMPS PERFORMANCE CURVES – RC 40 – RC 210





50 Hz

PROCESS PUMPS PERFORMANCE CURVES – RC 350- 450



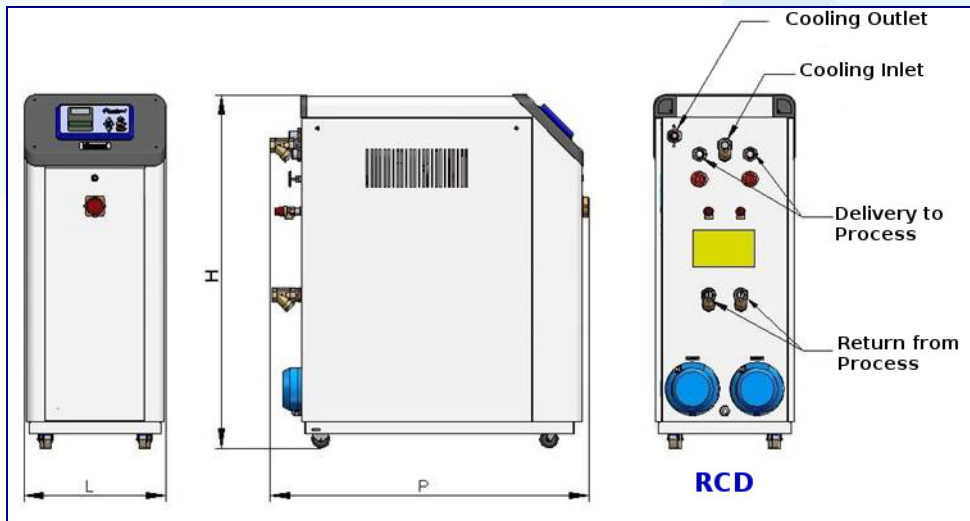


RCD

MICROGEL 50 Hz

DIMENSIONS

Microgel		RCD										
Model		40/12	60/12	80/12	100/24	130/24	170/24-L	170/24	210/24	300/48	350/48	450/48
Width - L	cm	45	45		54			63		95		
Depth - P	cm	91	91		121			179		185		
Height - H	cm	111	111		142			147		147		
Process Connections	-	G 1"			G 1 1/2"			G 2"		3" Victaulic		
Cooling Connections	-	G 1"			G 1"			G 1 1/2"		2" Victaulic		
Compressed Air Connections	-	n/a			6mm							
Net weight	Kg	210	215	235	360	370	395	600	650	950	980	1015



CONVERSION FACTORS

1 kW = 860 kcal/h
 1 kW = 3415 BTU
 1 TR = 12,000 BTU = 3,516 kW
 1 CTR = 14000 BTU = 4,395

1 bar = 10 mH₂O = 14.5 PSI
 1 bar = 100 kPa = 0,1 MPa
 10 PSI = 0.6895 bar



RCD

Features and Accessories - Microgel RC - ENG

<i>description</i>		<i>note</i>
Automatic Draining Kit	Optional	
Interface Kit for main protocols (RS 385, Profibus, Current Loop)	Optional	
Visual alarm kit	Optional	
Remote Monitoring (with PMR6G)	Optional	
Automatic Loading	Included	
Cooling control with motorized modulating valve (one for each zone)	Included	RCM18 with solenoid valve
Process Pumps - Efficiency class IE2-IE3	Included	
Circulation Pumps - Efficiency class IE2-IE3	Included	
Filter on inlet cooling water	Included	
Filter on water returning from process/mold	Included	
By-pass for Pressure Regulation	Included	from RC_18 to 180 (included)
Automatic Switch to Free-Cooling mode	Included	
Remote interlock (dry contact)	Included	
Reading of % of usage of Compressor	Included	
Reading of % of cooling and heating capacity in use	Included	
Reading of process supply temperature (for each zone)	Included	
Reading of process supply and return pressure (for each zone)	Included	
Calculated pressure drop and flow rate	Included	
Display messages in 12 languages	Included	
Metric / IP system selectable	Included	
Audible alarm	Included	
Circuit Breakers Protection for Compressor, Pumps and Fans	Included	
Protection for Low Water Level	Included	only SC models
Protection for High and Low Pressure	Included	
Protection for interrupted Probe and / or short-circuit	Included	
Anti-freeze protection	Included	
Safety Thermostat for heating elements	Included	
High Condensing Pressure Double Alarm (via software + mechanical switch)	Included	
Prolonged deviation of the set point warning	Included	
Record of last 40 alarms	Included	
Pivotable moving wheels	Included	

