

Microgel™ for injection molding

Temperature control unit, single zone (RSM) or double zone (RSD), consisting of a **water-cooled chiller** combined with one or two temperature controllers with high-flow **booster pumps** with or without **inverter, heating elements** and **free-cooling valve**.

Microgel is a super-compact mold cooling unit specifically designed for "**cycle cooling time reduction**".

It allows for researching and recording the best setting of temperature for each zone, optimizing product quality with the minimum cycle cooling time.

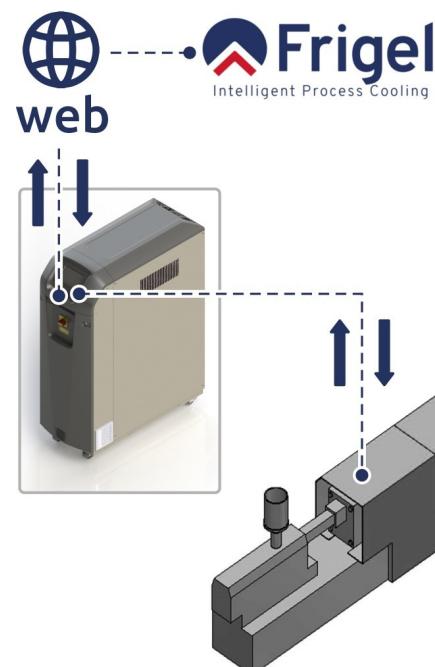
Available in 6 models with cooling capacity from 11 to 57 kW, with heating capacity from 6 to 18 kW (for each zone).



Four types of pumps available:

- SP = standard pressure
- HP = high pressure
- SV = standard pressure with inverter
- HV = high pressure with inverter

Microgel for plastic injection molding



Available two versions of hydraulic circuit:

- E = Ecody (for use with an Ecody system)
- T = Tower (for use with a cooling tower system)

The choice of components, the assembly procedures and the rigorous final testing of 100% of the production guarantee continuous operation with maximum reliability, even in the most difficult conditions.

Main advantages

- **Increased productivity up to 33%** thanks to cycle time reduction of up to 25% compared to standard TCU
- Intelligent use of energy consumption
- **High energy savings** with automatic free-cooling (for "Ecody" version)
- **Ready to remote interface** via MiND™ supervision system
- Temperature and pressure readings (IN/OUT)
- Solid state relay for heater control
- Available Inverter driven process pumps
- Flow meters on process pumps (optional)
- Standard digital interface for remote ON/OFF and alarm transmission
- Insulation for low operating temperatures

Mold temperature control

- The mold temperature has a considerable influence on the quality of the molded piece and on the work cycle

Optimization of the production process

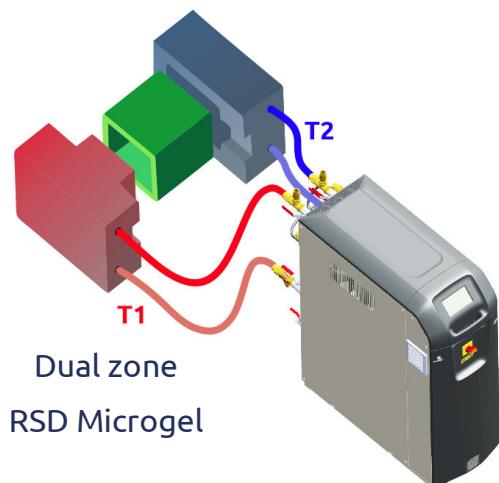
- Production capacity** (cycle reduction, waste and dead time)
- Product quality** (better aesthetics and consistent dimensional stability)
- Reduction in operating costs** (reduction of scrap and energy savings)

Benefits for the process

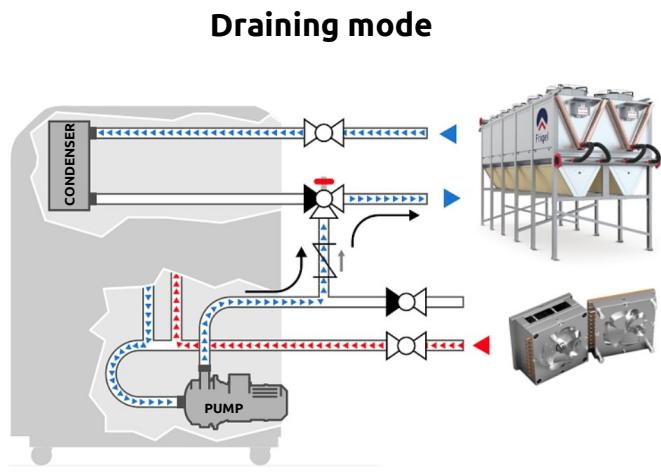
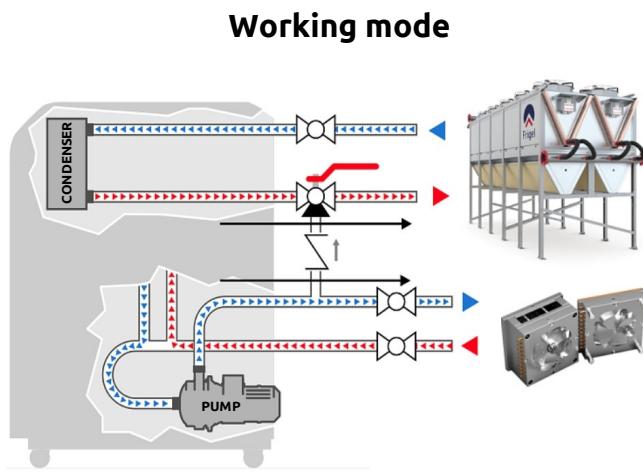
- Perfect repeatability** and high **productivity**
- Possibility of searching the best cooling conditions
- Complete independence in setting work parameters
- Pressure - flow (optional) - temperature control of each individual process**
- Precision in process temperature control
- Permanently stable and controlled cooling conditions**
- High cooling efficiency** and minimal temperature differential on the mold
- High reliability**
- Maximum flexibility** to eliminate the known problems of process cooling (condensation, appearance of the piece, respect for the dimensional aspects)
- Maximum integration between Microgel, machine and operator**

Benefits for the user

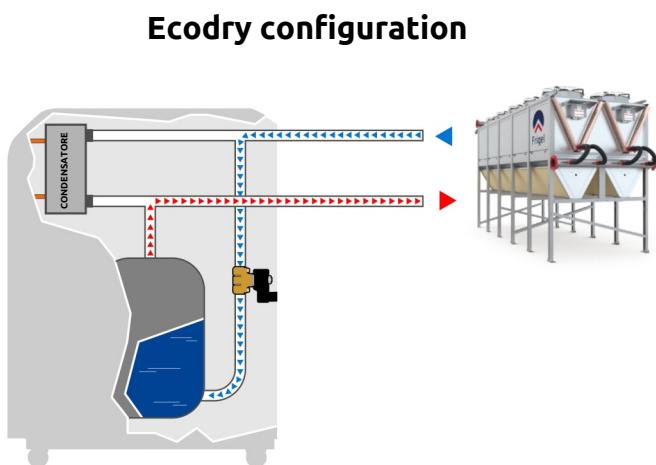
- Low energy consumption and fast start-up**
- Low pump energy consumption
- Low thermal losses related to the environment
- Reduction of dead times for mold changeover** and pre-heating
- Low maintenance costs** (simple and fast)
- Minimum environmental impact, having up to 80% less refrigerant than a centralized system**
- High energy savings with the "INDIVIDUAL FREE-COOLING" function



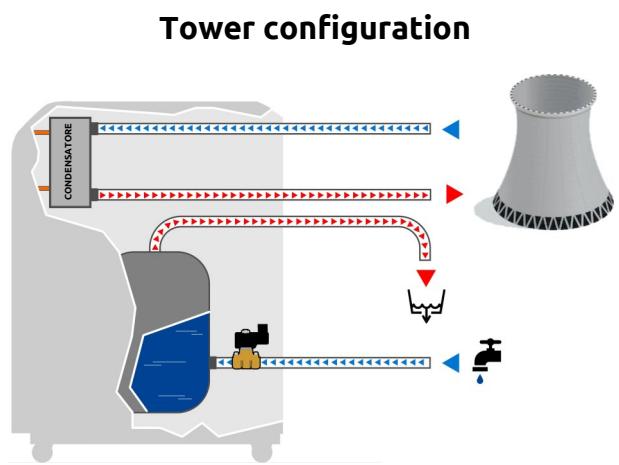
Mold/user drainage system (standard)



Hydraulic version



With integrated free cooling as standard to reduce electricity consumption by switching off the compressor.



Separate process and cooling circuits. Useful in the case of systems where the use of glycol is not allowed in the process or in the presence of an open circuit tower.

Dedicated filling and discharge system is required. The use of Aquagel GFK-T is suggested.

System interface



Main user dashboard

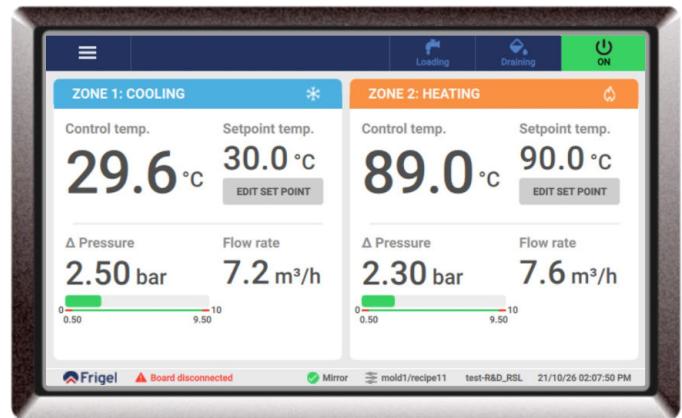
Fast information on zones working mode (cooling, heating, stand-by)



Information on unit performance (temperatures, pressures, flow rates)



Metric or imperial measurement system selectable



Chiller synoptic screen

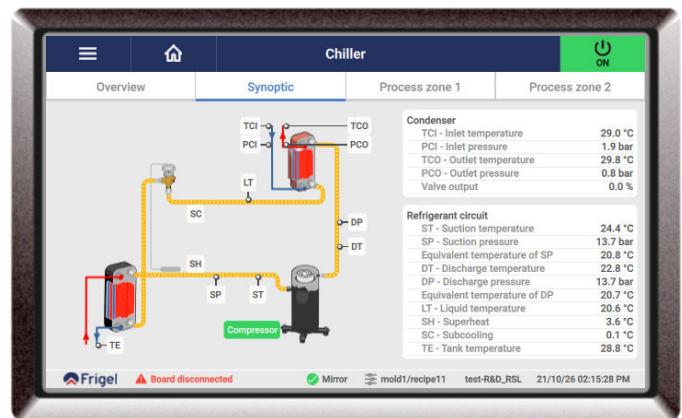
Principle scheme of the unit with 3D drawing of the main important components



List of probes names and values read or calculated



Real-time status of the component

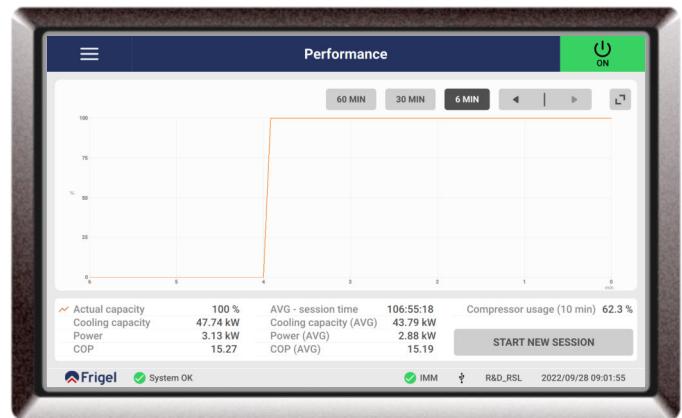


Performance screen

Real-time and historical process performance



Fast overview of the process temperature trend



Alarms

List and date of alarms and warnings



Quick guide to alarm resolution



Alarms			
Active alarms: 2 - Total alarms: 5 Click on an alarm for further information			
Code	Description	Reset	MM/DD HH:MM:SS
EVN32	EVAPORATOR ANTIFREEZE PROTECTION	Auto	10/26 03:02:09 PM
EVN60	BROKEN PROBE S1		10/26 03:02:06 PM
EVN76	FAULTY PROBE CHANNEL P1 - SUCTION PRESSU...		10/26 03:01:50 PM
EVN79	SYNCRO PUMP ON FLOW WARNING ZONE 1		10/26 03:01:53 PM
EVN8	TEMPERATURE OUT OF RANGE ZONE 2	Auto	10/26 03:01:40 PM

Main features

Refrigeration equipment

- Scroll compressor
- Stainless steel brazed plate evaporator and condenser
- Barostatic valve for continuous control of the condensing pressure
- Pressure and temperature sensors for circuit control
- R410A Ecological refrigerant



Water distribution equipment

- Designed to provide constant pressure and flow both to the process and to the evaporator
- One or two process pumps with high performance in terms of flow-rate with special mechanical seal for long durability
- Recirculation pump to guarantee constant flow to the evaporator
- Safety thermostat for resistances
- Low surface load Incoloy heating elements
- Anti-freezing protection
- High/low pressure differential protection
- Temperature control system with proportional modulating valve for each zone, for precise temperature control
- Automatic start-up venting and filling sequence
- Insulated stainless steel buffer tank
- Shut-off valves included on each hydraulic connection
- Y filters on process return water inlet
- Y filter on filling water inlet (for versions in Tower configuration)



Electrical and control equipment

- Microprocessor controller developed according to Frigel specifications
- Control panel with 7" touch screen display (HMI)
- Possibility of installing the most well-known interface systems for communication with production machines and centralized supervision
- Complete monitoring of the refrigeration and hydraulic circuit
- Proportional-integral control logic for temperature control with error lower than $\pm 2^{\circ}\text{C}$
- Procedures for loading and emptying the mold circuit
- Standard acoustic alarm
- Prolonged signaling of set point deviation
- Probe protection (interrupted and/or short-circuited)
- Remote start/stop function
- LAN port on the front dashboard for connections with supervision devices
- USB port in front dashboard for updates, assistance and parameter loading
- Alarms transmission



Frame

- Made of folded metal sheet and painted with epoxy powder
- Removable panels
- Compact design and fitted with casters
- Front handle for quick movement



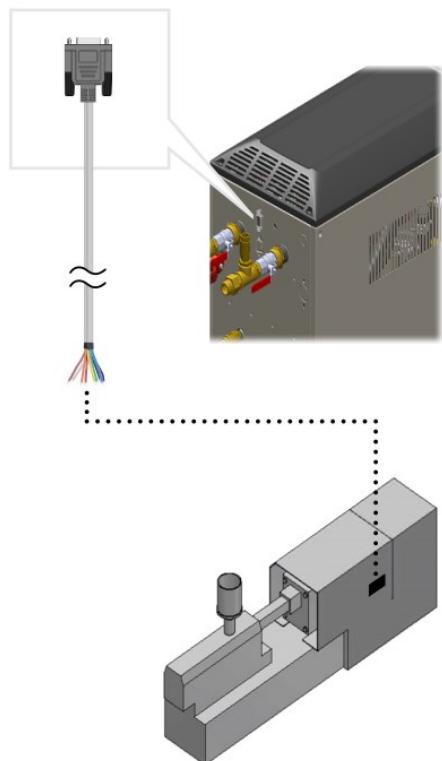
Options and accessories

SERIAL INTERFACE

Several serial interfaces are available to connect the **Microgel** to plastic processing machines:

- *Current-Loop* with 2 DB9 connectors on the machine and 10 meter cable
- *RS485* with 2 DB9 connectors on the machine and 10 meter cable
- *Canbus* with 2 DB9 connectors on the machine and 10 meter cable

Note: *Free Voltage Contact* as standard (terminal block connection, warning alarm and lockout alarm)

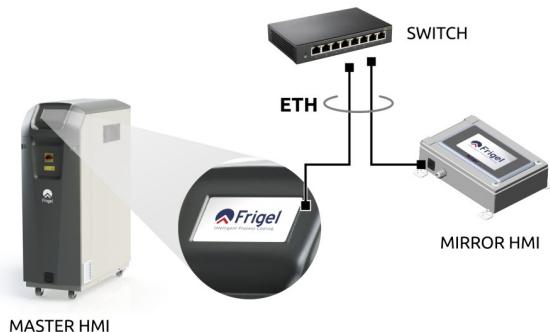


MIRROR HMI REMOTE PANEL

A touch screen is available to connect to the **Microgel** for remote display control:



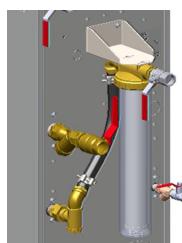
Direct connection



Connection through access point

FILTERS

Optional cartridge filter on cooling water inlet in alternative to std provided "Y" filter



FLOWMETER

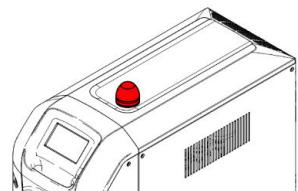
Optional flowmeter on process pumps for flow monitoring and VFD pump control



VISUAL ALARM

In addition to the acoustic alarm fitted as standard, a visual alarm is also available on request

- Red flashing led alarm



Technical data

RSD/RSM - 50Hz

Microgel RSD/RSM								
Model			50	80	100	145	180	210
Power supply voltage and frequency			400V±10%/3/50Hz					
Cooling capacity (***) (R410A)	15°C/25°C (*)	kW	16,3	20,9	26,5	35,6	47,2	56,9
	10°C/35°C	kW	12,3	15,8	20,8	28,0	35,9	43,4
Cooling zones	RSM	qty	1					
	RSD	qty	2					
Heating capacity	RSM		6kW	9kW	9kW	18kW	18kW	18kW
	RSD		6kW per zone	6kW per zone	9kW per zone	12kW per zone	12kW per zone	12kW per zone
Cooling medium			Water					
Cooling system			Direct					
Max set point temperature		°C	90					
Min set point temperature (no glycol)		°C	8					
Min set point (with glycol)	(***)	°C	-5					
Min cond. water temperature		°C	15					
Max cond. water temperature		°C	40					
Control valve	Type		motorized modulating valve					
Refrigerant circuit/s	qty		1					
Compressor	Type		Scroll					
	Capacity control		ON/OFF (0-100%)					
	Qty		1					
	Motor frequency		50					
	Nominal power	HP	4,5	6	7,5	10	13	15
Condenser	Type		Brazed plate					
	Nominal flow	m³/h	1,5	2,0	5,1	6,8	8,7	10,5
	Minimum ΔP	bar	1,5	1,5	1,5	1,5	1,5	1,5
Evaporator	Type		Brazed plate					
SP process pump	Type		Centrifugal					
	RSM	qty	1					
	RSD	qty	2					
	kW		0,75	1,5	1,85	1,85	1,85	2,20
	HP		1	2	2,5	2,5	2,5	3
	Full Load Ampere	A	1,9	4,1	4,7	4,7	4,7	4,7
	Motor poles		2					
	min	m³/h	1,20	1,20	1,20	1,20	1,20	6,00
	max		5,40	9,60	9,60	15,00	15,00	20,00
	max	bar	3,03	3,33	4,04	4,04	4,04	3,55
HP process pump	min		2,23	2,75	3,36	2,80	2,80	2,50
	Type		Centrifugal					
	RSM	qty	1					
	RSD	qty	2					
	kW		1,5	1,5	2,2	2,2	2,2	4,0
	HP		2	2	3,0	3,0	3,0	5,4
	Full Load Ampere	A	4,5	4,5	4,7	6,4	6,4	8,7
	Motor poles		2					
	min	m³/h	1,20	1,20	2,40	1,20	1,20	6,00
	max		4,80	9,00	9,00	12,60	12,60	22,00
Evaporator pump	max	bar	5,32	5,32	5,90	5,40	5,40	5,35
	min		4,74	3,65	4,40	3,95	3,95	3,80
	Type		Centrifugal					
	kW		0,45	0,45	0,45	0,45	0,45	0,75
	HP		0,6	0,6	0,6	0,6	0,6	1,01
Tank	Motor poles		2					
	Material		Stainless steel					
	Volume	L	23	23	23	70	70	70
Flow meter	Type		Vortex					
	Material		Stainless steel					
Process water connections	Type		GAS (ISO 228)					
	In/out		G 1" F (DN25)	G 1" ¼ F (DN32)	G 1" ¼ F (DN32)	G 1" ½ F (DN40)	G 1" ½ F (DN40)	G 2" F (DN50)
Condenser water connections	Type		GAS (ISO 228)					
	In/out		G 1" F (DN25)	G 1" F (DN25)	G 1" F (DN25)	G 1" ½ F (DN40)	G 1" ½ F (DN40)	G 1" ½ F (DN40)
Expansion valve	Type		Mechanical					

Technical data

RSD/RSM - 50Hz

		Microgel RSD/RSM						
Modello		50	80	100	145	180	210	
Unit Full Load Ampere (FLA) (Maximum value not reached during standard operation)	SP process pump (RSM)	A	21,2	29,2	33	49,9	54	57,8
	SP process pump (RSD)	A	31,8	37,7	50,7	63,2	67,3	71,2
	HP process pump (RSM)	A	23,8	29,6	33	51,6	55,7	61,8
	HP process pump (RSD)	A	37,0	38,5	50,7	66,6	70,7	79,2
Unit power (Maximum value not reached during standard operation)	SP process pump (RSM)	kW	12,7	17,7	20,1	31,6	33,9	35,6
	SP process pump (RSD)	kW	19,7	22,7	31,6	40,1	42,4	44,1
	HP process pump (RSM)	kW	13,9	18,0	20,1	32,5	34,8	37,6
	HP process pump (RSD)	kW	22,2	23,3	31,6	41,9	44,2	48,1
Power supply cable	SP process pump (RSM)	Size	FG7(O)R-4G 4mm ²	FG7(O)R-4G 6mm ²	FG7(O)R-4G 6mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 16mm ²
	SP process pump (RSD)	Size	FG7(O)R-4G 6mm ²	FG7(O)R-4G 10mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 25mm ²	FG7(O)R-4G 25mm ²	FG7(O)R-4G 25mm ²
	HP process pump (RSM)	Size	FG7(O)R-4G 4mm ²	FG7(O)R-4G 6mm ²	FG7(O)R-4G 6mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 16mm ²
	HP process pump (RSD)	Size	FG7(O)R-4G 10mm ²	FG7(O)R-4G 10mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 25mm ²	FG7(O)R-4G 25mm ²	FG7(O)R-4G 25mm ²
Sound level (calculated values) - (for RSM SP pump)	dB(A) 10 m		48,8	48,8	54,7	54,7	55,9	55,3
Compressed air	min. 4 - max 7,5 bar		No (E config.)	No (E config.)	No (E config.)	Yes (E config.)	Yes (E config.)	Yes (E config.)
	No (T config.)		No (T config.)					
Refrigerant Charge (R410A) (*****)	kg		1,44	1,65	1,85	2,11	2,52	3,10
Net weight (*****)	kg		216	220	353	359	389	420
Operating weight (R410A) (*****)	kg		240	245	378	431	462	493

- (*) Nominal Cooling capacity (water to process/condenser inlet water °C)
- (**) Process water ΔT = 2°C
- (***) With required verification of the refrigeration circuit by Frigel
- (****) approximative
- (*****) RSD Ecody with SP pump, without inverter and flowmeter
- (******) Not considering the water in pipes and in exchangers

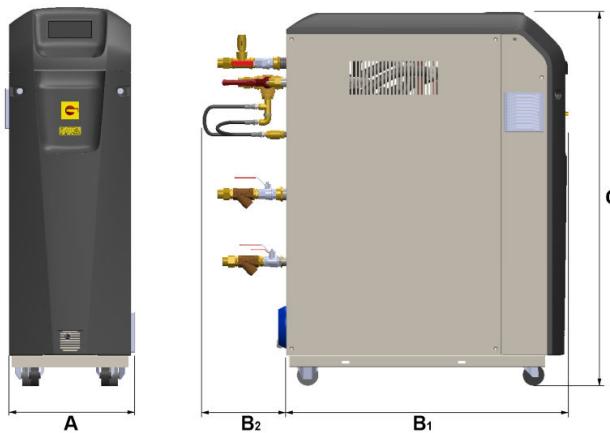
- Add glycol if set point < min set point allowable without glycol
- Pumps rated for up to 35% of glycol. If not, contact the manufacturer.
- Available supply voltage: 400V±10%/3/50Hz; 460V±10%/3/60Hz; 380V±10%/3/60Hz;
- On request: UL electrical panel for 60Hz versions
- Not suitable for DI water
- Altitude limit: 2000 m a.s.l.
- Max water working pressure: 8 bar

Technical dimensional data

"Ecody" configuration machine dimensions

Model		50	80	100	145	180	210
A	mm	477	477	477	614	614	614
B ₁	mm	1050	1050	1072	1641	1641	1641
B ₂	mm	452	436	436	548	548	611
C	mm	1390	1390	1390	1631	1631	1631

Dimensions refer to units in basic configuration, without added options



Technical data

RSD/RSM - 60Hz

Microgel RSD/RSM								
Model			50	80	100	145	180	210
Power supply voltage and frequency			460V±10%/3/60Hz					
Cooling capacity (***) (R410A)	15°C/25°C (*)	kW	15,3	22,2	25,9	33,4	43,8	57
	10°C/35°C	kW	11,6	17,1	19,5	26,1	34,3	43,7
Cooling zones	RSM	qty	1					
	RSD	qty	2					
Heating capacity	RSM		6kW	9kW	9kW	18kW	18kW	18kW
	RSD		6kW per zone	6kW per zone	9kW per zone	12kW per zone	12kW per zone	12kW per zone
Cooling medium			Water					
Cooling system			Direct					
Max set point temperature		°C	90					
Min set point temp. (no glycol)		°C	8					
Min set point (with glycol) (*****)		°C	-5					
Min cond. water temperature		°C	15					
Max cond. water temperature		°C	40					
Control valve	Type		motorized modulating valve					
Refrigerant circuit/s	Qty		1					
Compressor	Type		Scroll					
	Capacity control		ON/OFF (0-100%)					
	Qty		1					
	Motor frequency		60					
	Nominal power	HP	4,5	6	7,5	10	13	15
Condenser	Type		Brazed plate					
	Nominal flow	m³/h	1,5	2,0	5,1	6,8	8,7	10,5
	Minimum ΔP	bar	1,5	1,5	1,5	1,5	1,5	1,5
Evaporator	Type		Brazed plate					
	Type		Centrifugal					
	RSM	qty	1					
	RSD	qty	2					
	kW		0,75	1,10	2,20	2,20	2,20	3
	HP		1	1,50	3	3	3	4
	Full Load Ampere	A	1,5	2,2	4,1	4,1	4,1	5,6
			2					
	Motor poles							
	min	m³/h	1,20	3,00	3,00	3,00	3,00	6,00
SP process pump	max		4,80	9,60	9,60	15,00	15,00	24,00
	max	bar	3,10	3,00	3,68	3,68	3,68	4,10
	min	bar	2,60	2,35	3,25	2,82	2,82	2,60
	Type		Centrifugal					
	RSM	qty	1					
	RSD	qty	2					
	kW		1,5	2,2	2,2	3	3	4
	HP		2	3	3	4	4	5,4
	Full Load Ampere	A	4,1	4,1	N.A.	5,6	5,6	7,6
HP process pump			2					
	Motor poles							
	min	m³/h	1,20	2,40	2,40	3,60	3,60	6,00
	max		6,00	9,60	9,60	15,00	15,00	24,00
	max	bar	5,87	6,05	6,05	6,00	6,00	5,15
	min	bar	4,37	4,54	4,54	4,35	4,35	3,66
	Type		Centrifugal					
	kW		0,45	0,45	0,45	0,45	0,45	0,45
	HP		0,6	0,6	0,6	0,6	0,6	0,6
Evaporator pump			2					
	Motor poles							
	Material		Stainless steel					
Tank	Volume	L	23	23	23	70	70	70
Flow meter	Type		Vortex					
	Material		Stainless steel					
Process water connections	Type		NPT					
	In/out		1" M (DN25)	1" 1/4 M (DN32)	1 1/4" M (DN32)	1 1/2 M (DN40)	1 1/2 M (DN40)	2" M (DN50)
Condenser water connections	Type		NPT					
	In/out		1" M (DN25)	1" M (DN25)	1" M (DN25)	1 1/2 M (DN40)	1 1/2 M (DN40)	1 1/2 M (DN40)
Expansion valve	Type		Mechanical					

Technical data

RSD/RSM - 60Hz

		Microgel RSD/RSM					
Modello		50	80	100	145	180	210
Unit Full Load Ampere (FLA) (Maximum value not reached during standard operation)	SP process pump (RSM)	A	17,0	24,4	27,4	44,9	49,6
	SP process pump (RSD)	A	26,0	30,3	42,8	63,2	61,1
	HP process pump (RSM)	A	19,6	26,3	27,4	46,4	51,1
	HP process pump (RSD)	A	31,2	34,1	42,8	59,4	64,1
Unit power (Maximum value not reached during standard operation)	SP process pump (RSM)	kW	12,0	17,3	19,2	32,8	36,1
	SP process pump (RSD)	kW	18,9	21,6	30,7	40,1	44,6
	HP process pump (RSM)	kW	13,6	18,5	19,2	33,7	37
	HP process pump (RSD)	kW	22,1	24,0	30,7	43,1	46,5
Power supply cable	SP process pump (RSM)	Size	FG7(O)R-4G 2,5mm ²	FG7(O)R-4G 4mm ²	FG7(O)R-4G 6mm ²	FG7(O)R-4G 10mm ²	FG7(O)R-4G 10mm ²
	SP process pump (RSD)	Size	FG7(O)R-4G 4mm ²	FG7(O)R-4G 6mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 25mm ²	FG7(O)R-4G 25mm ²
	HP process pump (RSM)	Size	FG7(O)R-4G 2,5mm ²	FG7(O)R-4G 4mm ²	FG7(O)R-4G 6mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 16mm ²
	HP process pump (RSD)	Size	FG7(O)R-4G 6mm ²	FG7(O)R-4G 6mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 16mm ²	FG7(O)R-4G 25mm ²
Sound level (calculated values) - (for RSM SP pump)	dB(A) 10 m		71,6	71,7	72,1	75,8	75,8
Compressed air	min. 4 - max 7,5 bar		No (E config.)	No (E config.)	No (E config.)	Yes (E config.)	Yes (E config.)
	No (T config.)		No (T config.)	No (T config.)	No (T config.)	No (T config.)	No (T config.)
Refrigerant Charge (R410A) (****)	kg		1,4	1,7	1,9	4,9	5,1
Net weight (*****)	kg		217,0	257,0	363,0	369,0	399,0
Operating weight (R410A) (***)	kg		241	281	387	443	474

- (*) Nominal Cooling capacity (water to process/condenser inlet water °C)
- (**) Process water ΔT = 2°C
- (***) With required verification of the refrigeration circuit by Frigel
- (****) approximative
- (*****) RSD Ecody with SP pump, without inverter and flowmeter
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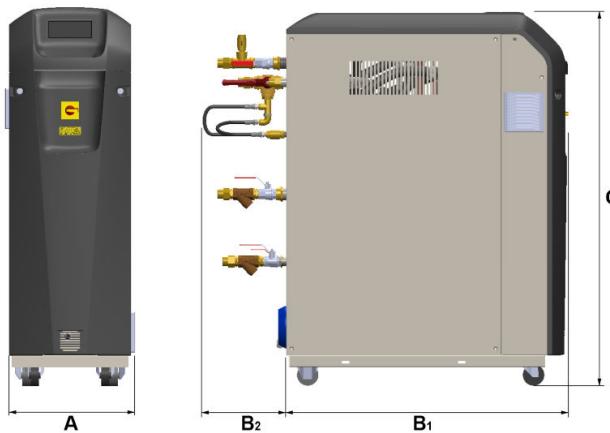
- Add glycol if set point < min set point allowable without glycol
- Pumps rated for up to 35% of glycol. If not, contact the manufacturer.
- Available supply voltage: 400V±10%/3/50Hz; 460V±10%/3/60Hz; 380V±10%/3/60Hz;
- On request: UL electrical panel for 60Hz versions
- Not suitable for DI water
- Altitude limit: 2000 m a.s.l.
- Max water working pressure: 8 bar

Technical dimensional data

"Ecody" configuration machine dimensions

Model		50	80	100	145	180	210
A	mm	477	477	477	614	614	614
B ₁	mm	1050	1050	1072	1641	1641	1641
B ₂	mm	452	436	436	548	548	611
C	mm	1390	1390	1390	1631	1631	1631

Dimensions refer to units in basic configuration, without added options

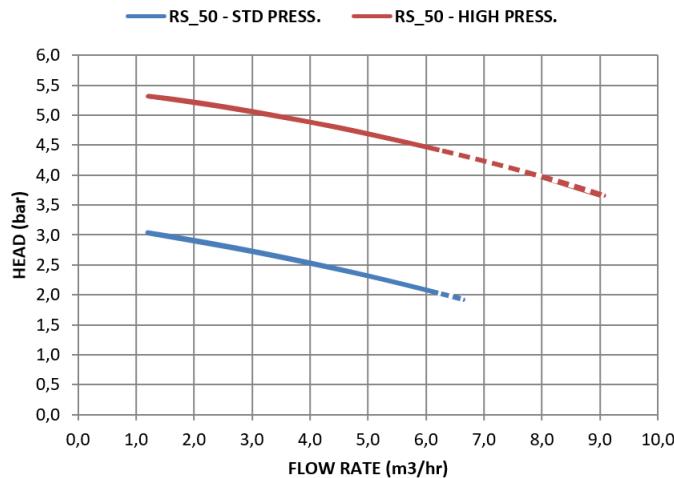


50Hz

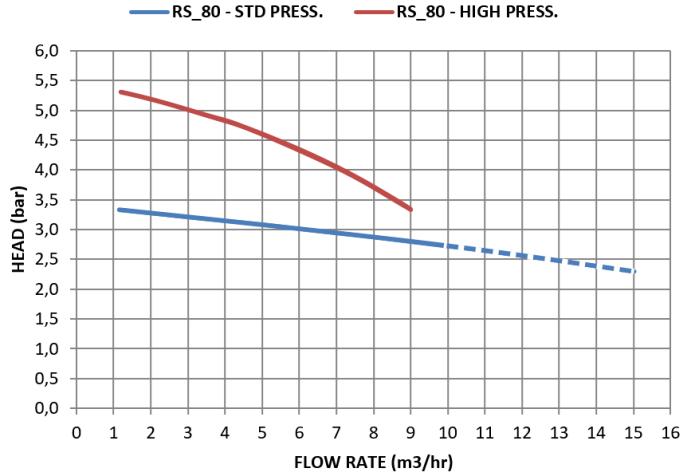
Process pump curves

RSM single zone - single pump
RSD dual zone - two pumps

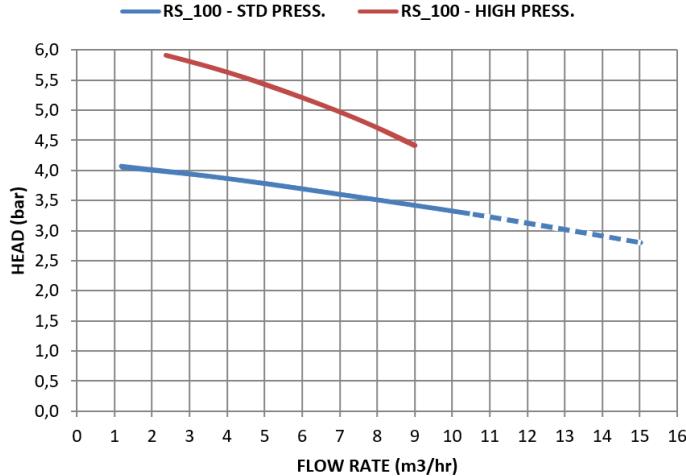
RSD/RSM_50



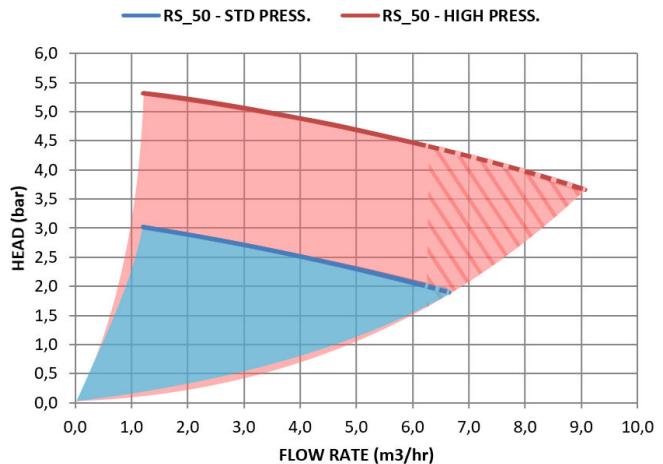
RSD/RSM_80



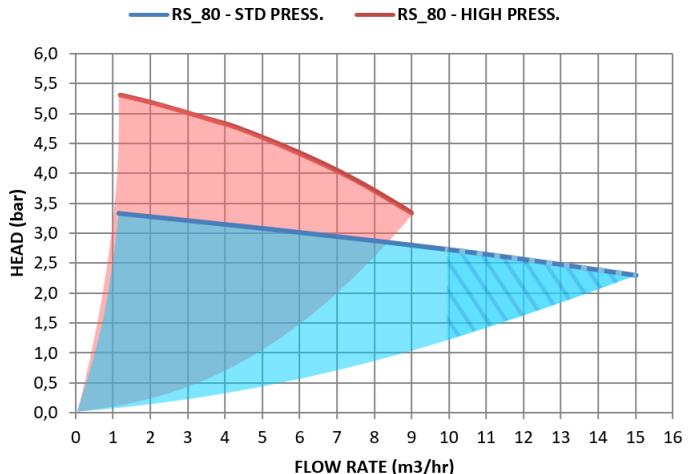
RSD/RSM_100



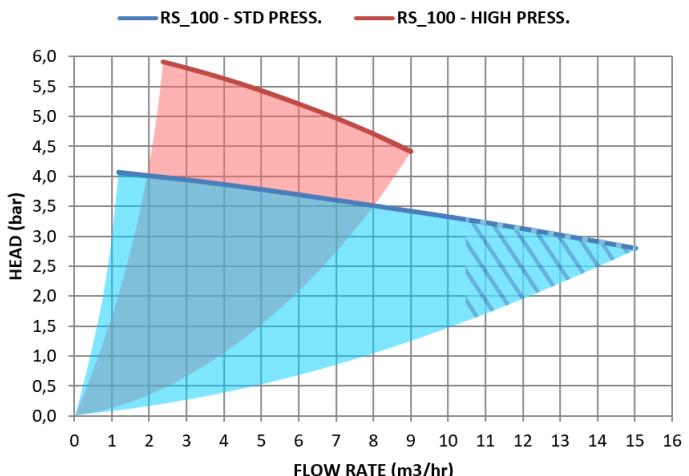
RSD/RSM_50 inverter



RSD/RSM_80 inverter



RSD/RSM_100 inverter

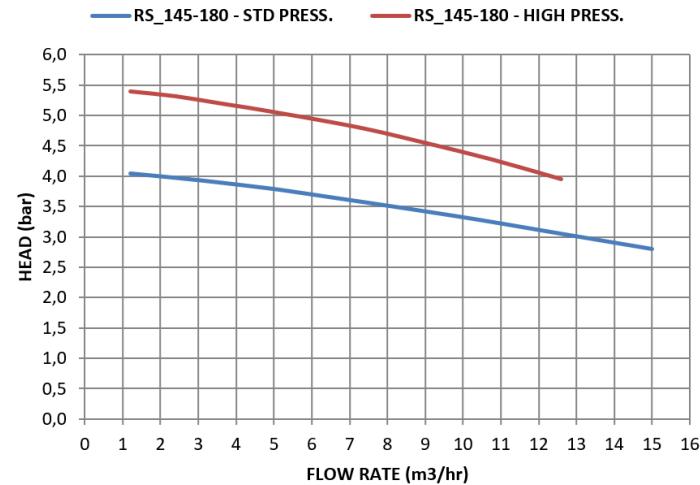


The graphs are an indicative representation of pump operation. For more details on reduced speed operation points, please contact Frigel.

Process pump curves

RSM single zone - single pump

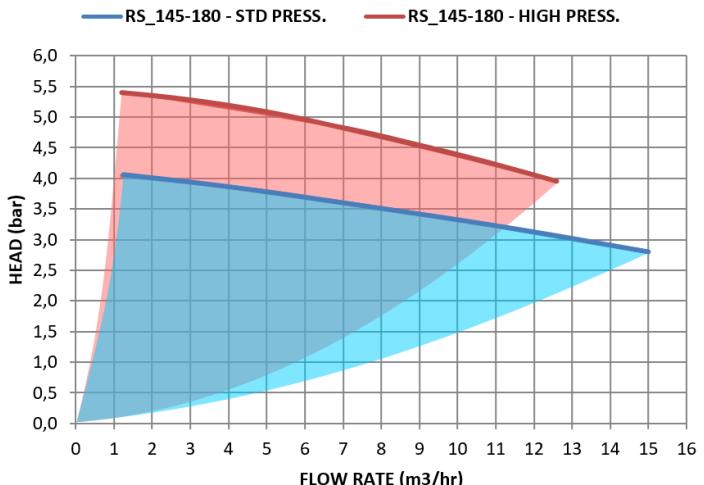
RSD/RSM_145



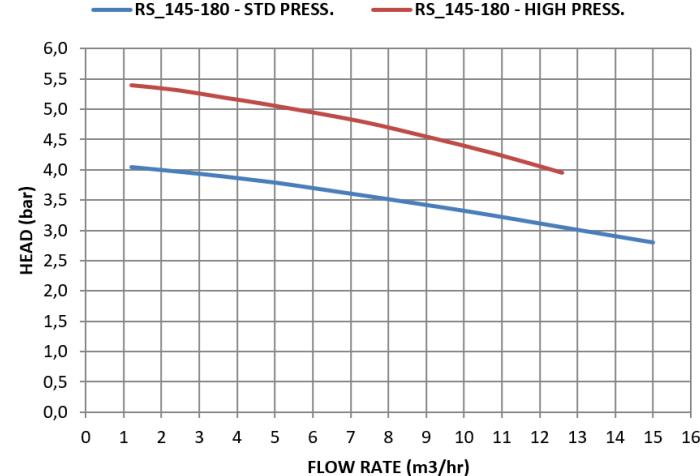
RSD dual zone - two pumps

50Hz

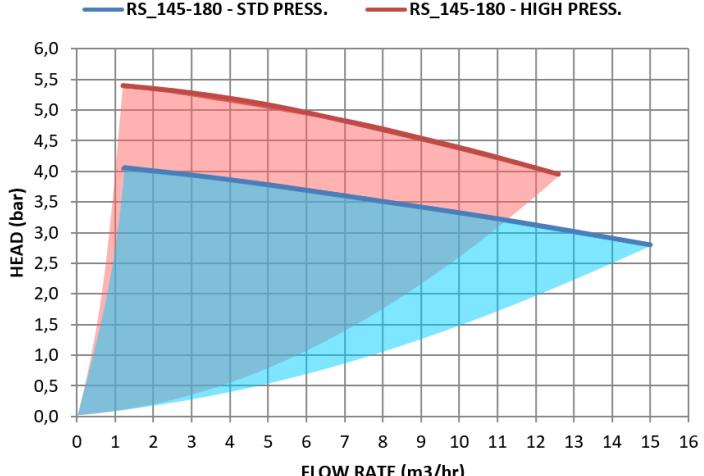
RS_145 inverter



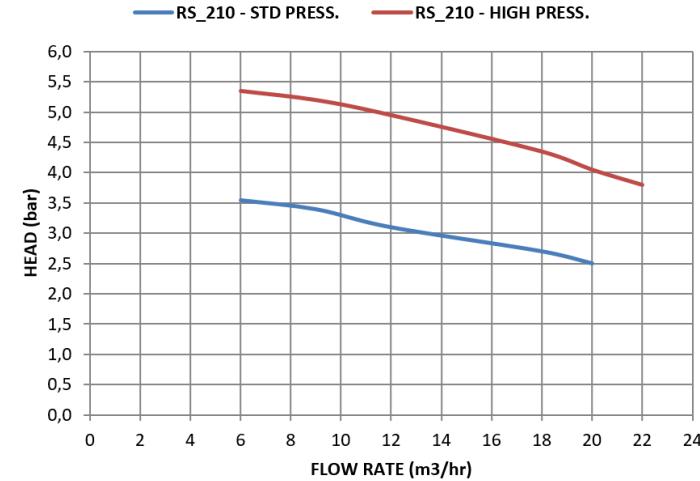
RSD/RSM_180



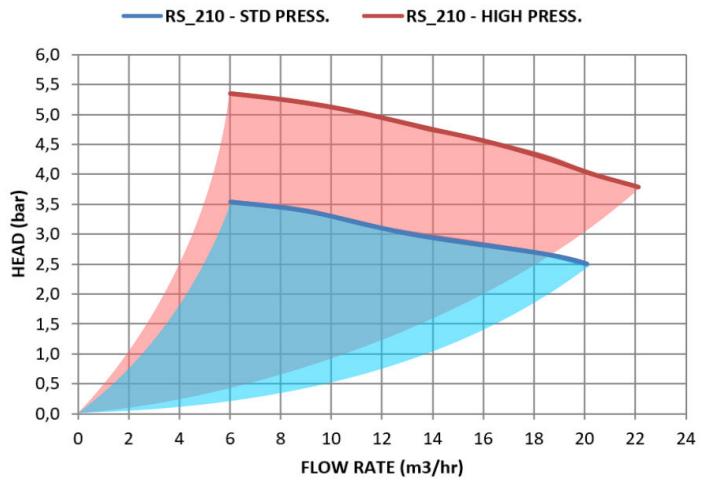
RSD/RSM_180 inverter



RSD/RSM_210



RSD/RSM_210 inverter



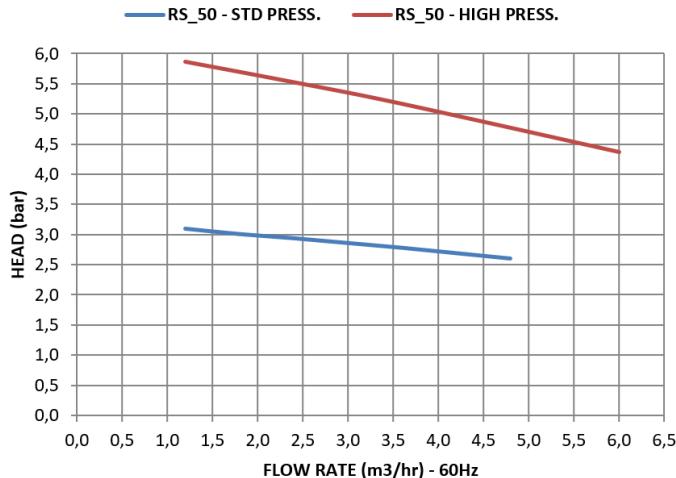
The graphs are an indicative representation of pump operation. For more details on reduced speed operation points, please contact Frigel.

60Hz

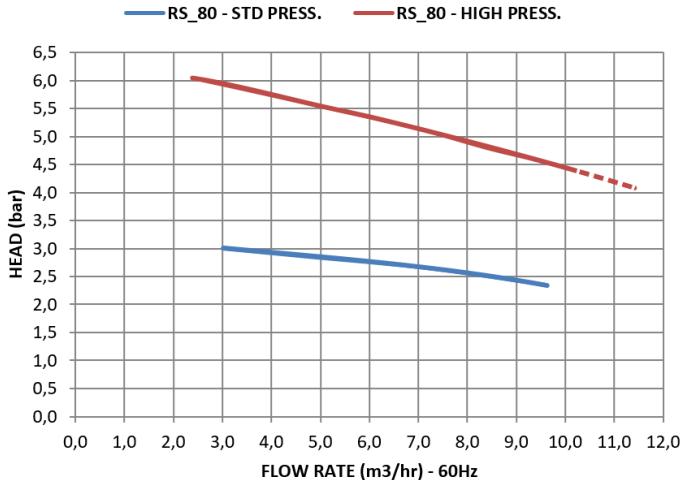
Process pump curves

RSM single zone - single pump
RSD dual zone - two pumps

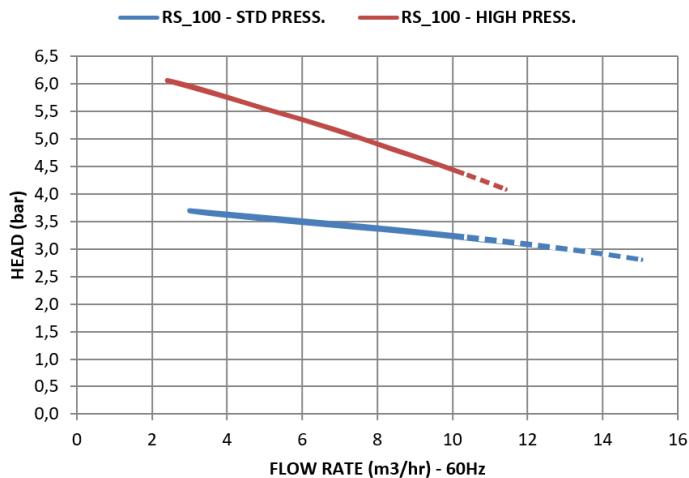
RSD/RSM_50



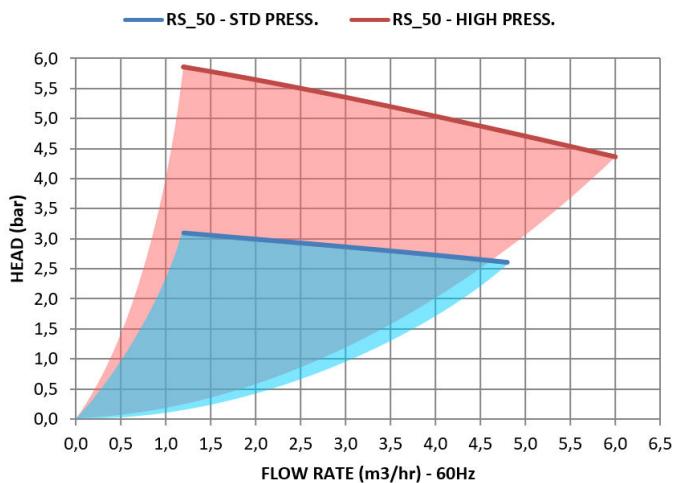
RSD/RSM_80



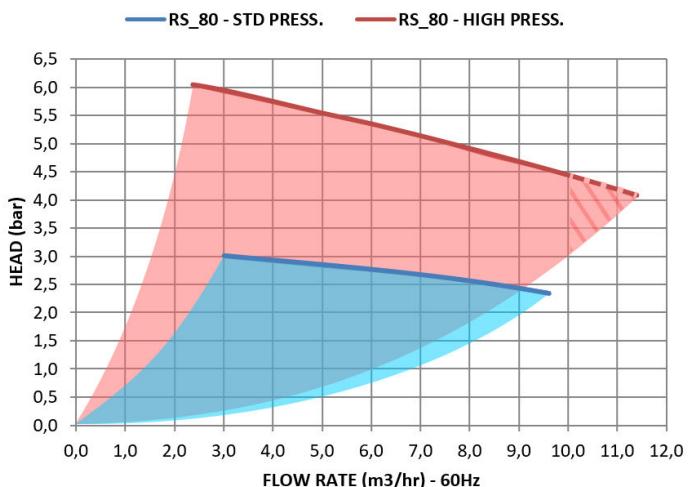
RSD/RSM_100



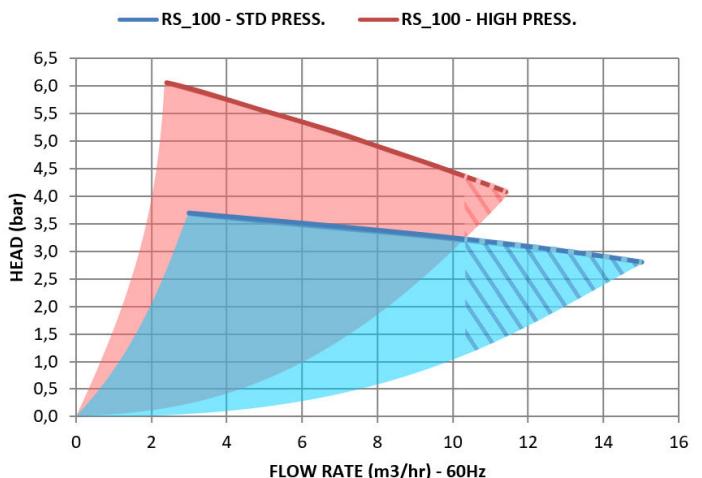
RSD/RSM_50 inverter



RSD/RSM_80 inverter



RSD/RSM_100 inverter



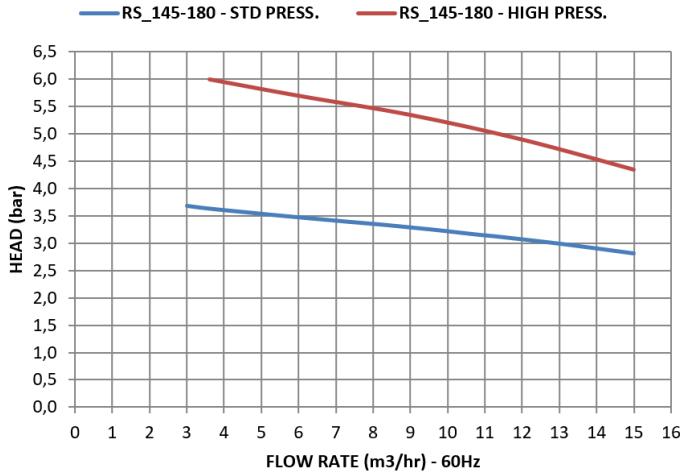
The graphs are an indicative representation of pump operation. For more details on reduced speed operation points, please contact Frigel.

60Hz

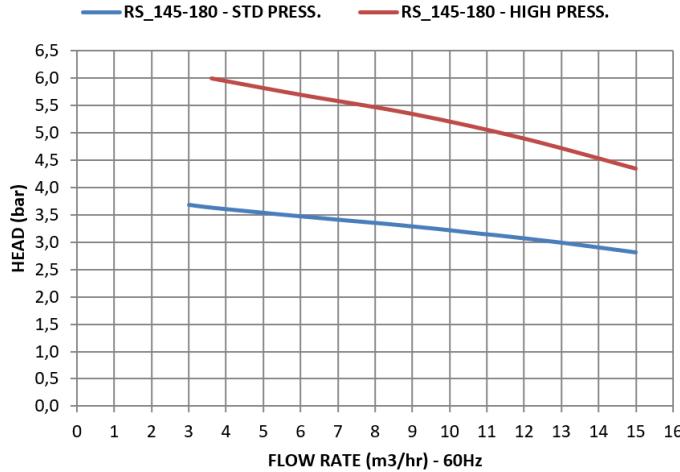
Process pump curves

RSM single zone - single pump
RSD dual zone - two pumps

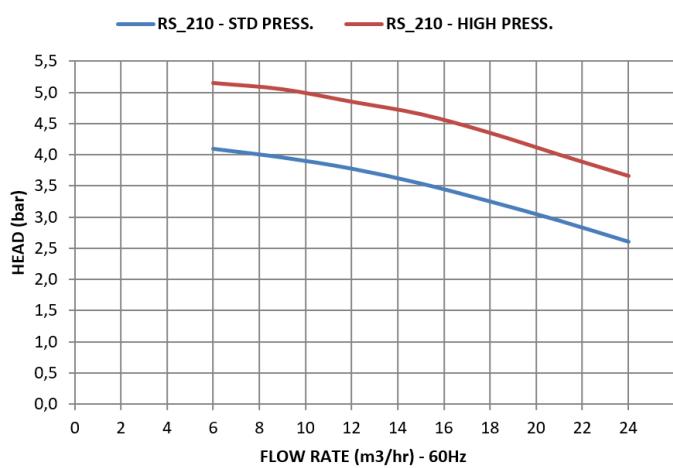
RSD/RSM_145



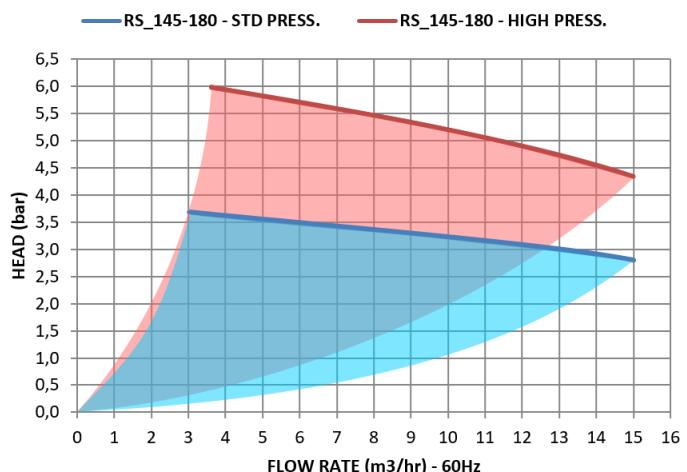
RSD/RSM_180



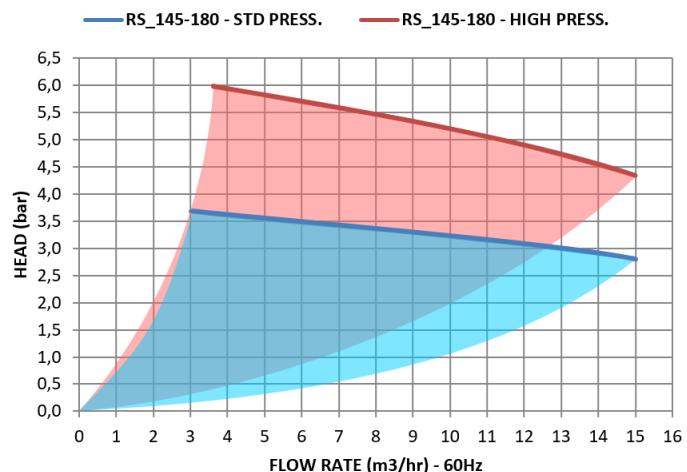
RSD/RSM_210



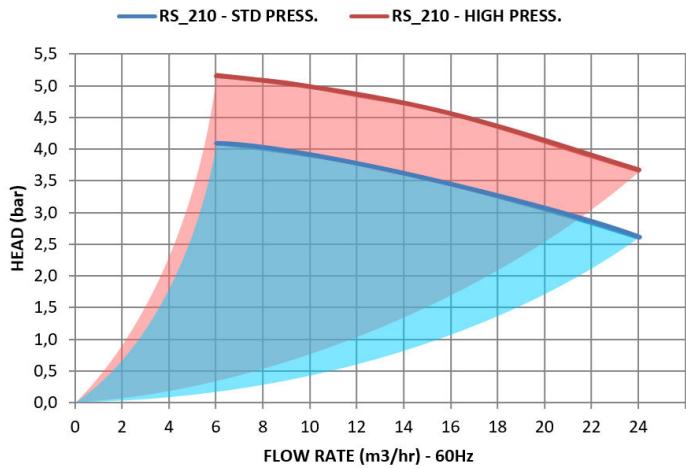
RSD/RSM_145 inverter



RSD/RSM_180 inverter



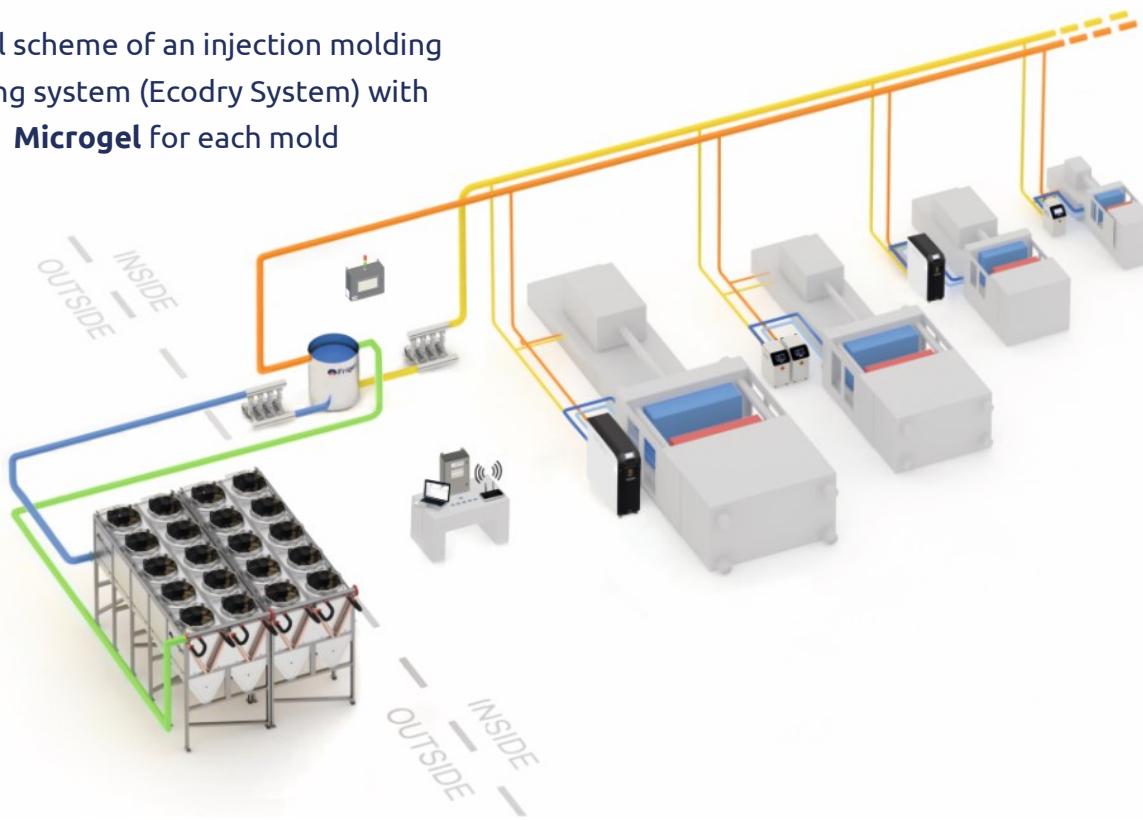
RSD/RSM_210 inverter



The graphs are an indicative representation of pump operation. For more details on reduced speed operation points, please contact Frigel.

Connection example

Typical scheme of an injection molding cooling system (Ecodyr System) with Microgel for each mold



Order code

N	RS	M	0	50	E	HP	4	0	0
N Frigel product					POWER SUPPLY				
RS Product name					0 400V/3 Ph./50Hz				
					1 460V/3 Ph./60Hz				
					3 380V/3 Ph./60Hz				
					5 460V/3 Ph./60Hz UL std.				
					7 200-220V/3 Ph./50-60 Hz				
					POWER METER				
					0 Not present				
					W Present				
					REFRIGERANT TYPE				
					4 R410A				
ASSEMBLY REVISION					PRESSURE RANGE AND PUMP CONTROL				
0 Revision '0'					SP Standard pressure with ON/OFF pumps/s				
SIZE					HP High pressure with ON/OFF pumps/s				
xxx 050-080-100-145-180-210					SV Standard pressure with VFD pump/s				
CONFIGURATION					HV High pressure with VFD pump/s				
T Tower									
E Ecodyr									