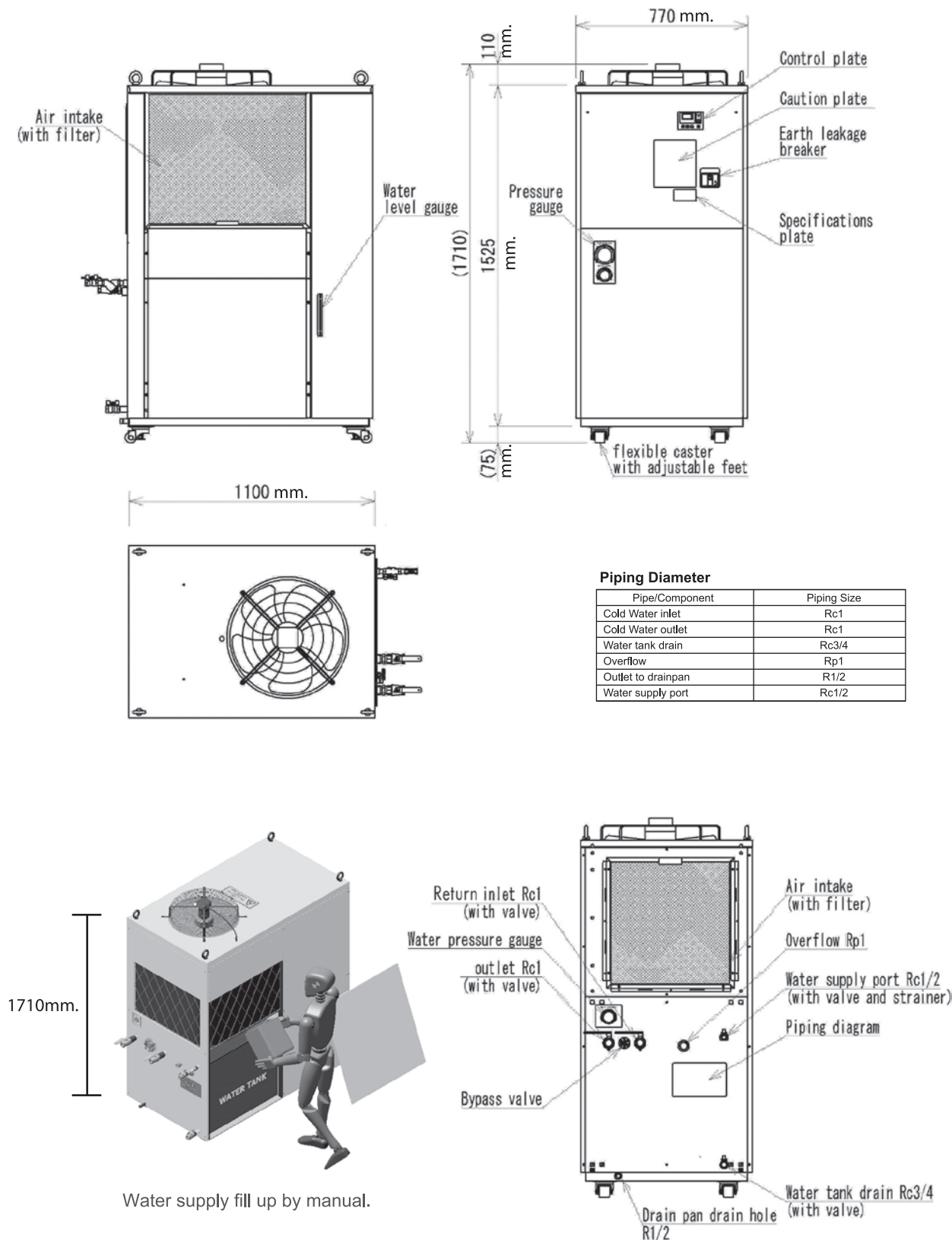




AIR-COOL CHILLER



factor4 solutions
in molding factories

Increasing the Output Saiving Water Quality issues

- Molding efficiency declines as scale and corrosion build in cooling pipes.
- Water quality issues are solved through the use of an air-cooled chiller.



MAIN POWER SUPPLY

- Power 380V./3P./50Hz
- Power 200V./3P./50Hz

Remote : WIRING OPTION

**Model: MRKL3750V
MRKL5500V**

- Ambient air temperature 15°C~40°C
- Pressure Max 0.45 / Max 0.50 MPa
- Power 380V./3P./50Hz
- Power 200V./3P./50Hz

**Remote Operation
Will be an optional**

factor4
in molding factories

- Eliminate Resin Wastage
- Eliminate Energy Wastage
- Eliminate Water Wastage
- Environment Friendly



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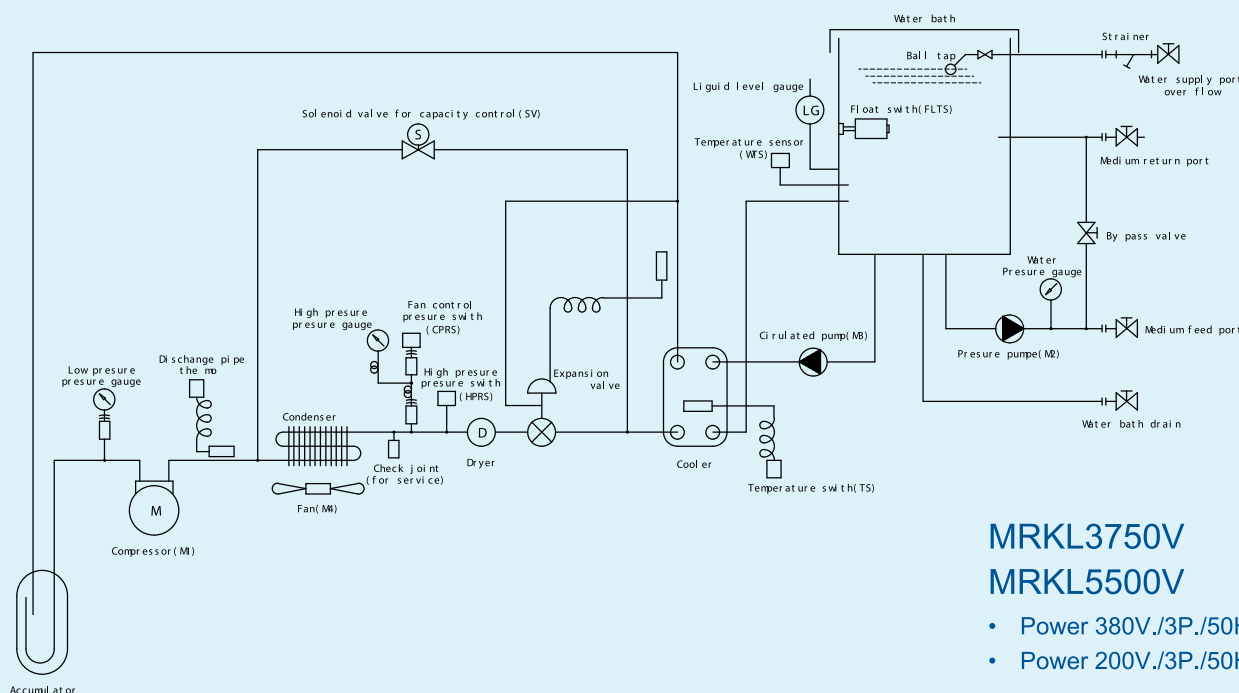
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Comes with Remote ON/OFF, alarm output and alarm buzzer functions.

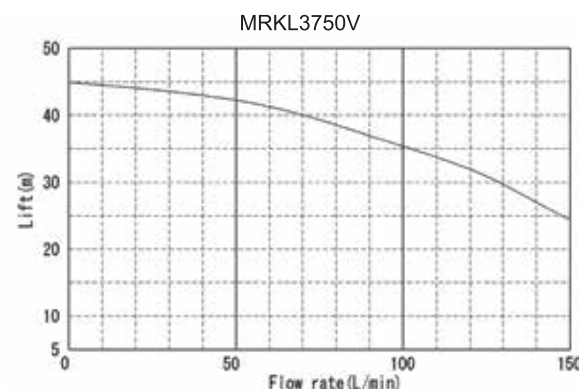
- Highly Sealed
- Low Operating Noise and Less Vibration
- Superior Compression Efficiency
- Space-Saving

Flow Diagram

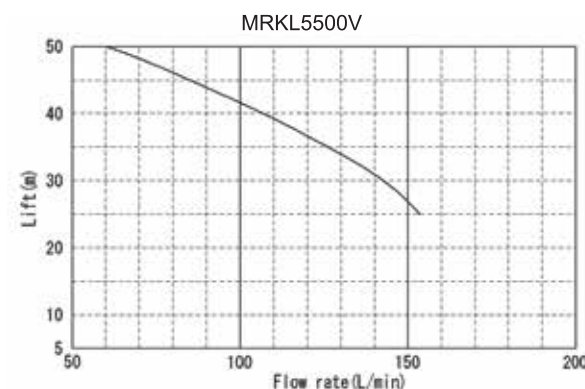


- Power 380V./3P./50Hz
- Power 200V./3P./50Hz

Chilled water flow chart



1. The graph shows the actual measured flow rate when the bypass valve is closed.



1. The graph shows the actual measured flow rate when the bypass valve is closed.



Model				MRKL3750V				MRKL5500V				
Cooling Capacity			kW	*1 7.6				*1 12.5				
External paint color				Ivory white (Munsell No.7.5Y7.5/0.5)								
External dimensions (H×D×W)			mm	1710×1100×770								
Mass (Tank dryness)			kg	Approx. 320				Approx. 330				
Water in and outlet connection dia.				Rc1								
Control accuracy			°C	±1								
Water temperature range			°C	7～35								
Ambient air temperature			°C	15～40								
Maximum allowable working pressure			MPa	0.45				0.50				
Electrical ratings				200V/3P/50Hz		380V/3P/50Hz		200V/3P/50Hz		380V/3P/50Hz		
	Power source		V/Hz	*3 3phase 200±10%/50	*3 3phase 380±10%/50		*3 3phase 200±10%/50		*3 3phase 380±10%/50			
	Power consumption		kW	*1 6.1	*1 5.7		*1 9.0		*1 9.0			
	Current		A	*1 20.0	*1 10.5		*1 31.0		*1 16.5			
	Power supply capacity		kVA	*2 9.5	*2 8.0		*2 14.0		*2 14.0			
	Breaker capacity (Rated sensitive current)		A	40	20 (30mA)		60		30 (30mA)			
Equipment Specifications	Compressor	Structure		Fully hermetic Type Scroll type								
		Output	kW	3.36				5.15				
	Fan motor output		Output	W	380							
	Condenser		Structure		Finned tube type, forced air cooling							
	Evaporator	Structure		Plate type								
		Material		SUS316 (with copper brazing)								
	circulation pump	Structure		Magnet drive type								
		Output	W	235								
	Discharge pump	Structure		multistage centrifugal type								
		Output	kW	1.1				1.5				
		Circulation flow range	L/min	58 (Lift:42m)				66 (Lift:45m)				
	Refrigeration control method				Extension valve							
					Automatic switching between hot-gasbypass system and ON/OFF control							
	Water tank capacity			L	Approx. 110							
	Water supply method				Ball tap (water supply pressure : 0.5 MPa or less)							
	Refrigerant				R-410A							
	Thermostat				Electric type (with alarm monitor)							
Protective devices	Compressor			Over-current relay, Discharge thermostat								
	Fan motor			Thermostat (Built-in motor)								
	circulation pump			Over-current relay								
	Discharge pump			Over-current relay								
	Refrigeration cycle			High Pressure Switch, Temperature switch								
	Water circuit			Float switch (for low limit alarm of water level), bypass valve								
	Back stop function			Buiot-in thermostat								
Remarks	*1 Operating conditions: Chilled water temp.: 9°C, ambient temp.: 32°C, *2 At maximum driving current within specifications *3 It makes it within +/-3% the between the aspects of the voltage the unbalanced.											
Note : Freeze-Prevention of Cold Water (*Freeze-Preventive Operation mode /*Setting Freeze-Prevention Mode ON and OFF)												