

Paving the way for a greener tomorrow!



CANADA MENERGY CORPORATION NANJING MENERGY CORPORATION

**Every Menergy Heat Pump installed is one
more step towards a greener tomorrow**



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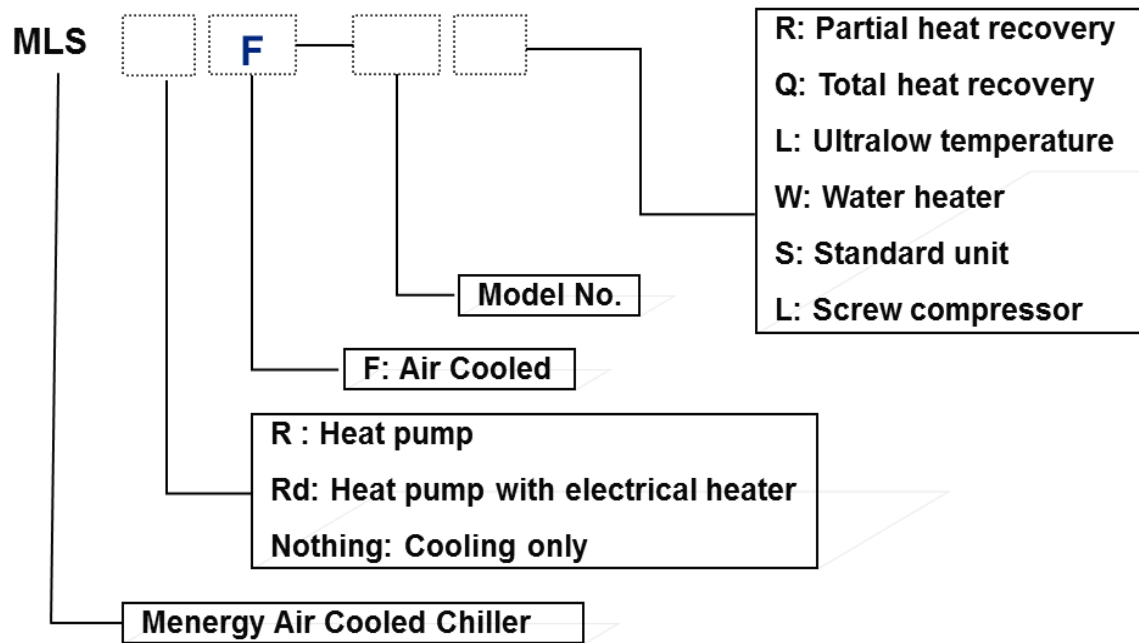
Modular Air Cooled Water Chiller & Heat Pump



Product features:

- * Using modular networking technology, the operation of individual modules can be coordinated according demand.
- * V-shaped air-side heat exchangers and unique exchanger protection technology (patent ZL 2010 2 0243062.2) increases heat exchange efficiency to 30% above that of conventional heat exchangers.
- * Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.
- * Uses advanced hermetic scroll compressor high-efficiency, low-noise, and low-vibration operation.
- * Remote monitoring and control features enable the unit's operational schedule to be set via internet or phone.
- * Standalone subsystems enable maintenance of individual subsystems without affecting the continued operation of the rest.
- * Heat recycling function provides free hot water using heat removed from room during cooling.
- * The following accessories are chose and bought by customers, please get in touch with Menergy or Menergy distributor if required.
 - ◆ Flange
 - ◆ Flow switch
 - ◆ Water pump
 - ◆ Electric heater
 - ◆ Heat recovery
 - ◆ Wired controller
 - ◆ Stainless steel covering
 - ◆ Rubber anti-vibration mounting
 - ◆ Communication adapter connecting the unit to BMS (Building Management System)

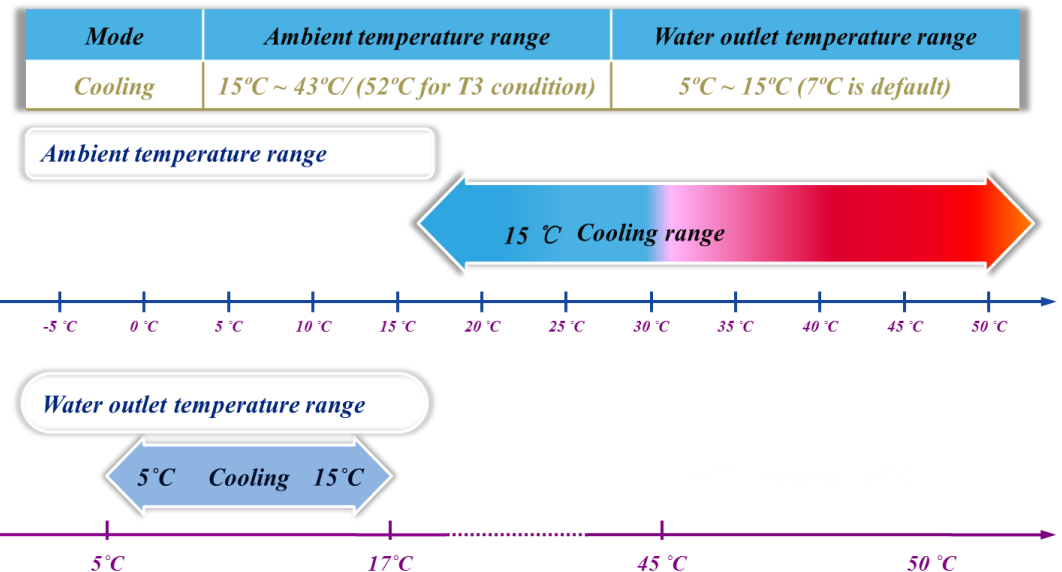
Nomenclature



Notes:

1. The Design and manufacturing standards are based on the GB 4706.32-2004 & GB/T 18430.1-2007.
2. Applicable Power Supplies
 Main Power Source (3φ) Control Power Supplies (1φ)
 Standard: 380V 50Hz 220V 50Hz
 Optional: 415V 50Hz 240V 50Hz
 Optional: 380V 60Hz 220V 60Hz
 Optional: 440V 60Hz 240V 60Hz
3. Optional Refrigerant:
 R410A, R407C, R22
4. Temperature Operation Range:
 From -25°C to 52°C for Ultralow and T3 condition products

Temp operation range



Modular Air Cooled Water Chiller & Heat Pump

Model		MLSF-68	MLSRF-68	MLSF-90	MLSRF-90	MLSF-102	MLSRF-102	MLSF-136	MLSRF-136	
Nominal cooling capacity	kW	68	68	90	90	102	102	136	136	
Nominal heating capacity	kW	—	72.5	—	95	—	108	—	143	
Domestic hot water(option)	Heat recovery	kW	21	21	27	27	31	31	41	
	Inlet Temp	°C	50							
	Outlet Temp	°C	55							
Power supply		V/Ph/Hz	380/3/50							
Compressor	Type		Hermetic scroll compressor							
	Quantities		4	4	6	6	6	6	6	
	Power	kW	22	22	29.75	29.75	33.05	33.05	40.6	40.6
Safe Protection Device			High/low pressure switch,overload protection,counter clockWise and short phase protection (power phases sequence protection),lack water(water-flow switch),anti-freeze protection,ect							
Air side (Condenser)		Type	Copper-fin-coil							
Water side (Evaporator)	Type		Shell-and-Tube							
	Water flow	m ³ /h	11.7	11.7	15.5	15.5	17.5	17.5	21.4	21.4
	Water pressure drop	kPa	40-50							
	Max. pressure drop	kPa	1.0Mpa							
Dimension	Width	mm	2065	2065	3000	3000	3000	3000	3216	3216
	Depth	mm	1030	1030	1030	1030	1030	1030	1030	1030
	Height	mm	1974	1974	1820	1820	2062	2062	2156	2156
Noise		dB(A)	65	65	67	67	69	69	71	71
Refrigerant	Charge	kg	3.8×4	3.8×4	6×4	6×4	3.8×6	3.8×6	4.5×6	4.5×6
Net weight		kg	840	840	1200	1200	1350	1350	1480	1480
Air condition side inlet/outlet pipe			DN65							
Hot water side inlet/outlet pipe			DN32							

Notes:

1. Standard cooling work condition: chilled water inlet temperature 12°C, outlet temperature 7°C; dry bulb temperature 35°C, wet bulb temperature 24°C
2. Standard heating work condition: hot water inlet temperature 40°C, outlet temperature 45°C; dry bulb temperature 7°C, wet bulb temperature 6°C.
3. Units can realize 1~16 unit's modular connection and control energy-regulation automatically.
4. All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications

Air Cooled Mini Water Chiller & Heat Pump

Model		MLSRF-8BS1	MLSRF-10BS1	MLSRF-12BS1	MLSRF-15BS1/S	MLSRF-20BS2/S	MLSRF-25BS2/S	MLSRF-30BS2/S	
Nominal cooling capacity	kW	7.8	10.1	12.5	15.2	19.6	24.6	29.7	
Nominal heating capacity	kW	8.6	11.1	13.7	16.7	21.5	27	32.6	
Power supply	V/Ph/Hz	220/50			380~415/3/50				
Compressor	Type	Hermetic scroll compressor							
	Quantities	1	1	1	1	2	2	2	
	Power (kW)	Cooling	2.5	3.4	4.1	5.2	6	8.1	9
Heating		2.7	3.5	4.3	5.4	6.9	8.6	9.8	
Safe Protection Device		High/low pressure switch,overload protection,counter clockWise and short phase protection (power phases sequence protection),lack water(water-flow switch),anti-freeze protection,ect							
Air side (Condenser)	Type	Copper-fin-coil							
Water side (Evaporator)	Type	Plate Heat Exchanger							
	Water flow volume	m ³ /h	1.3	1.6	1.9	2.5	3.4	4.3	5.2
	Water pressure drop	kPa	30-40						
Dimension	Width	mm	956	956	956	956	1210	1210	1360
	Depth	mm	410	410	410	410	590	590	590
	Height	mm	1440	1440	1440	1440	1585	1585	1585
Noise	dB(A)	54	55	56	58	58	60	61	
Refrigerant	Charge	kg	2.8×1	3.2×1	3.6×1	4.0×1	3.2×2	3.6×2	4.0×2
Net weight	kg	130	140	160	180	240	280	320	
Inlet/outlet pipe		DN25	DN25	DN25	DN32	DN32	DN32	DN32	

Notes:

1. Standard cooling work condition: chilled water inlet temperature 12°C, outlet temperature 7°C; dry bulb temperature 35°C, wet bulb temperature 24°C;
2. Standard heating work condition: hot water inlet temperature 40°C, outlet temperature 45°C; dry bulb temperature 7°C, wet bulb temperature 6°C.
3. All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications

Modular Air Source Heat Pump Water Heater

Model		MLSRF-11W	MLSRF-15W	MLSRF-22W	MLSRF-28W	MLSRF-35W	MLSRF-43W	MLSRF-75W	MLSRF-85W	
Nominal heating capacity	kW	11.3	14.7	22.1	28.4	35.2	43.3	75	85	
Nominal hot water output	m ³ /h	0.243	0.316	0.476	0.612	0.75	0.935	1.61	1.83	
Rated input power	kW	2.7	3.5	5.4	6.9	8.6	9.8	18.6	20.5	
Power supply	V/Ph/Hz	220/50			380/3/50			380/3/50		
Compressor	Type	Hermetic scroll compressor								
	Quantities	1	1	2	2	2	2	2		
Safe Protection Device		High/low pressure switch,overload protection,counter clockWise and short phase protection (power phases sequence protection),lack water(water-flow switch),anti-freeze protection,ect								
Air side (Condenser)	Type	Copper-fin-coil								
Water side (Evaporator)	Type	Tube in Tube Heat Exchanger						Shell-and-Tube		
	Water flow volume	m ³ /h	1.9	2.5	3.1	4	5	5.9	12.9	14.7
	Water pressure drop	kPa	30-40						40-50	40-50
Dimension	Width	mm	950	950	1390	1390	1390	1830	1980	2065
	Depth	mm	950	950	740	740	740	740	950	1030
	Height	mm	950	950	1590	1590	1640	1640	1795	1974
Noise	dB(A)	60	60	61	63	64	66	65	65	
Refrigerant	Charge	kg	3x1	3x1	3x2	4x2	4.5x2	5x2	7x2	8x2
Net weight	kg	120	150	200	260	350	420	750	840	
Inlet/outlet pipe		DN32			DN40			DN65		

Notes:

1. Standard hot water work condition: inlet water temperature 15°C, outlet temperature 55°C; dry bulb temperature 20°C, wet bulb temperature 15°C.
2. Units can realize 1~8 unit's modular connection and control energy-regulation automatically.
4. All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications

Modular Air Cooled Screw Chiller & Heat Pump

Model		MLSRF-150L	MLSRF-200L	MLSRF-300L	MLSRF-520L	MLSRF-720L	MLSRF-900L	MLSRF-1080L	MLSRF-1300L	MLSRF-1440L
Rated cooling capacity(kW)		150	200	300	520	720	900	1080	1300	1440
Rated heating capacity(kW)		166	220	330	572	792	990	1188	1430	1584
Power(V/Ph/Hz)		380-420/3/50								
Compressor Power(kW)		45.8	61.1	86.7	150	210	260	316	378	421
Energy Control(%)		25-50-75-100								
Fan motor	Quantity	4	4	6	8	12	18	18	24	24
	Single power(kPa)	1.1	1.56	1.56	2.23	2.23	1.56	2.23	2.1	2.08
Air side heat exchanger	Type	V type								
	Fin	Copper-fin-coil								
Water side heat exchanger	Type	Shell and tube								
	Water Flow(m ³ /h)	26	34	51	89	123	154	185	223	247
	Water Resistance(kPa)	48	48	55	44	52	44	48	44	48
	Inlet & outlet pipe size	DN100	DN100	DN100	DN100	DN100	DN100	DN100	DN100	DN100
Dimension	Length(mm)	2400	2300	3300	5400	7200	9900	10800	13400	14400
	Width(mm)	2140	2140	2140	2140	2140	2140	2140	2140	2140
	height(mm)	2500	2500	2500	2500	2500	2500	2500	2500	2500
Noise dB(A)		72	73	75	75	79	78	79	78	79
Unit weight(kg)		2450	2750	3750	6200	8600	11250	12900	16000	17200
Working weight(kg)		2700	3000	4050	6700	9500	12150	14250	17400	19000

Notes:

1. Standard cooling work condition: chilled water inlet temperature 12°C, outlet temperature 7°C; dry bulb temperature 35°C, wet bulb temperature 24°C
2. Standard heating work condition: hot water inlet temperature 40°C, outlet temperature 45°C; dry bulb temperature 7°C, wet bulb temperature 6°C.
3. PLC control system and touch-screen user interface simplifies operation.
4. All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications

Menergy International R&D Center & Manufacturing Center

