

**Water-cooled condensing units
and water heat pumps with scroll compressors**



DESCRIZIONE GENERALE

Unit Frame.

Frame is made of anodized aluminium section bars, with aluminium corner joints and galvanized steel panel casing with baked-on epoxy-polyester powder paint. RAL 7032 colour.

Hermetic compressors.

Scroll type with thermal overload cutout, mounted on rubber vibration-dampers.

Refrigerant circuit.

With charging connection, liquid sight glass (except 21-31-36), drier filter, high and low pressure switches, safety device.

Condenser.

Braze-welded plate construction for well water, with pressure control valve.

Electrical panel.

With main switch, power and control circuit protection, compressor tactor.

Testing.

Units are factory tested and supplied with refrigerant charge (only form mod. 21 ÷ 81) and initial oil charge.

AVAILABLE VERSIONS

MU/LE

Condensing unit.

MU/LE/HP

Reversible condensing unit fitted with four-way diverting valve and thermostatic expansion valve. Hydraulic circuit with pressure control valve, by-pass solenoid valve, second water flow switch.

ACCESSORIES

- solenoid valve on liquid line; (excluding HP version);
- expansion valve for remote evaporator;
- liquid receiver;
- condenser for tower water;
- rubber vibration dampers;
- special voltages.

Can be used in combination with UTA-UTAH direct-expansion fan units..

MU/LE - R407C TECHNICAL DATA

Unit size		21	31	36	41	61
Cooling(*)						
Nominal capacity	kW	6,3	9,7	11,3	13,8	17,1
Heating (**)						
Nominal capacity	kW	6,9	10,6	12,4	15,1	18,7
Compressor						
Quantity	n°	1	1	1	1	1
Type	/			scroll		
Cooling power input	kW	1,3	2,0	2,3	2,9	3,6
Heating power input	kW	1,6	2,5	2,9	3,5	4,2
Condenser						
				plate type		
Water volume	dm ³	0,25	0,25	0,25	0,50	0,50
Refrigerant charge						
For water chiller version	kg	0,5	0,6	0,7	0,8	0,9
For heat pump version	kg	0,9	1,0	1,1	1,3	1,4
Oil charge						
	kg	1,00	1,10	1,10	1,85	1,55
version ST						
Pump nominal power	kW	0,22	0,22	0,22	0,46	0,46
Water flow rate	l/s	0,258	0,392	0,453	0,558	0,689
Pump available pressure	kPa	60	60	60	120	100
Storage tank capacity	l	100	100	100	100	100
Expansion vessel	l	2	2	2	2	2
Shipping weight (#)	kg	68	74	75	81	85
Shipping weight vers. ST (#)	kg	137	140	143	153	156

Unit size		81	91	101	141	161
Cooling(*)						
Nominal capacity	kW	20,1	26,7	36,1	44,6	51,6
Heating (**)						
Nominal capacity	kW	22	29,8	39,7	49,0	56,8
Compressor						
Quantity	n°	1	1	1	1	1
Type	/			scroll		
Cooling power input	kW	4,1	5,5	7,4	9,4	11,1
Heating power input	kW	4,9	6,5	8,9	11,1	13,1
Condenser						
				plate type		
Water volume	dm ³	0,5	1,04	1,04	1,04	1,04
Refrigerant charge						
For water chiller version	kg	1,0	4,5	5,5	7,2	9,0
For heat pump version	kg	1,5	6,0	7,0	8,8	10,6
Oil charge						
	kg	1,65	2,5	2,5	4,0	4,0
version ST						
Pump nominal power	kW	0,46	0,62	0,62	0,82	0,82
Water flow rate	l/s	0,828	1,028	1,425	1,778	2,136
Pump available pressure	kPa	80	100	80	110	80
Storage tank capacity	l	100	100	100	100	100
Expansion vessel	l	2	2	2	2	2
Shipping weight (#)	kg	88	174	181	190	200
Shipping weight vers. ST (#)	kg	158	235	241	251	262

(*) Dew temperature at suction pressure of 7 °C ; evaporator inlet/outlet water temperature 12-7 °C.

(**) Evaporator outlet water temperature 15/10 °C ; condenser temperature 50 °C.

(#) For heat pump units increase weight by 10%.