

ProfiCool

Intelligent Recirculating Chillers



Recirculating Chillers ProfiCool *Minimus*

Air-cooled cooling machine with storage tank (in standard version open to atmosphere) and pump as well as electronic digital thermostat.

Model ProfiCool <i>Minimus</i>		PCMin 04.02	PCMin 06.02
Refrigerant	CFC-free	R134a	R134a
Cooling capacity at +20°C/+15°C	Watts	350/310	500/450
Operating range	°C	+5 / +25	+5 / +25
Pump capacity	l/min	12.5	12.5
Pump pressure	bars	0.75	0.75
Tank capacity	litres	7	7
Water connection (quick connection)	CPC quick connection couples for hose 10 mm outside diameter		
Operating voltage	Ph/Volts/Hz	1/N/PE/230/50-60	1/N/PE/230/50-60
Weight	kgs	22	25
Dimensions (WxDxH)	mm	413x283x415	413x283x415



Recirculating Chillers ProfiCool *Primus*

Air-cooled cooling machine with storage tank (in standard version open to atmosphere) and pump as well as electronic digital thermostat for temperature constancy $\pm 0,1$ K.

Model ProfiCool <i>Primus</i>		PCPR 009	PCPR 013	PCPR 020	PCPR 025
Refrigerant	CFC-free	R134a	R134a	R404a	R404a
Cooling capacity at +20°C/+15°C	kWs	0.6 / 0.4	1.0 / 0.8	1.7 / 1.4	1.9 / 1.6
Operating range	°C	+15 / +30	+15 / +30	+15 / +30	+15 / +30
Temperature constancy	K	± 0.1	± 0.1	± 0.1	± 0.1
Rated coolant flow	m ³ /h	0.35	0.35	0.35	0.39
Pump pressure	bars	5.0	5.0	5.0	5.0
Tank capacity	litres	4	4	4	6.5
Water connection (quick connection)	CPC quick connection couples for hose 12 mm outside diameter				
Operating voltage (Models-NED)	Ph/Volts/Hz	1/N/PE/230/50-60	1/N/PE/230/50-60	1/N/PE/230/50-60	1/N/PE/230/50-60
Weight	kgs	35	42	48	68
Dimensions (WxDxH)	mm	235x520x625	235x520x625	235x520x625	440x608x740

more units up to 10 kW available



Recirculating Chillers (19") ProfiCool *Exactus*

Air-cooled cooling machine as 19" rack with storage tank (in standard version open to atmosphere) and pump as well as electronic digital thermostat for temperature constancy $\pm 0,1$ K.

Model ProfiCool <i>Exactus</i>		PCEX 014	PCEX 020	PCEX 055
Refrigerant	CFC-free	R404a	R404a	R404a
Cooling capacity at +20°C	kWs	1.2	1.8	5.3
Operating range	°C	+15 / +30	+15 / +30	+15 / +30
Temperature constancy	K	± 0.1	± 0.1	± 0.1
Pump capacity	l/min	5-20	5-20	4-40
Pump pressure	bars	0.5-4	0.5-4	1-5
Tank capacity	litres	6	4.5	20
Water connection (plug connection)	CPC connection couples for hose 12 mm outside diameter			3/4" G
Operating voltage	Ph/Volts/Hz	1/N/PE/230/50-60	1/N/PE/230/50-60	3/PE/380-415/50 3/PE/460-480/60
Weight	kgs	35	40	55
Dimensions (WxD)	mm	440x500	440x500	440x580
Height (1 rack unit = 44.5 mm)	RU	7.5	7.5	18



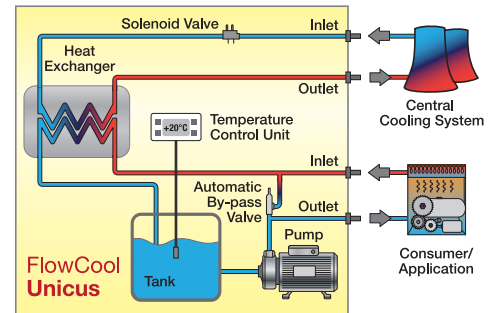
For all units we provide a wide range of options.
www.NationalLab.eu

ProfiCool

Intelligent Recirculating Chillers

Water-to-Water Heat Exchanger System FlowCool Unicus

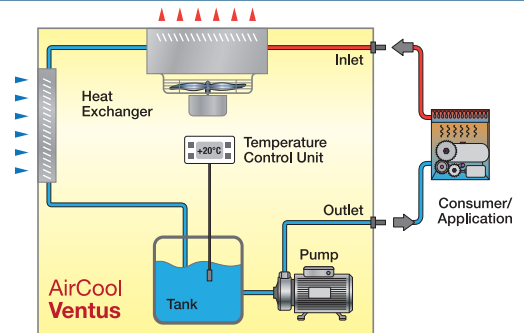
Heat exchanger system without active refrigeration for connection to an in-house cooling circuit. Exchanging system with storage tank (in standard version open to atmosphere) and pump as well as electronic digital thermostat for application cooling circuit.



Model FlowCool Unicus		FCUN 001	FCUN 004	FCUN 006	FCUN 011
Cooling capacity	kWs	1.3	3.8	6.5	11.5
Operating range cooling temperature	°C	+10/+50	+10/+50	+10/+50	+10/+50
Temperature constancy	K	±2	±2	±2	±2
Rated coolant flow	m³/h	0.6	0.7	1.1	2.0
Pump pressure	bars	2.9	2.9	4.2	2.3
Tank capacity	litres	10	10	10	10
Water connection		for hose 12 mm inside-Ø		Female R 3/4"	
Operating voltage	Ph/Volts/Hz	1/N/PE/230/50	1/N/PE/230/50	1/N/PE/230/50	1/N/PE/230/50
Weight	kgs	19	22	32	33
Dimensions (WxDxH)	mm	230x520x650	445x575x540	445x575x540	445x575x540

Air-to-Water Heat Exchanger System AirCool Ventus

Heat exchanger system without active refrigeration for heat discharged into the ambient air. Application cooling circuit with storage tank (in standard version open to atmosphere) and pump as well as electronic digital thermostat.



Model AirCool Ventus		ACVE 001	ACVE 002	ACVE 004
Cooling capacity at dT of 5K/20K	kWs	0.8 / 3.2	1.3 / 5.2	3.9 / 15.6
Cooling medium		water	water	water
Rated coolant flow	m³/h	0.6	0.6	0.7
Pump pressure	bars	2.9	2.9	2.8
Tank capacity	litres	10	10	30
Water connection		(hose olives) for hose 12 mm inside-Ø		Female R 3/4"
Required flow of cooling air	m³/h	880	800	2.100
Operating voltage	Ph/Volts/Hz	1/N/PE/230/50	1/N/PE/230/50	1/N/PE/230/50
Weight	kgs	23	25	101
Dimensions (WxDxH)	mm	230x520x650	230x520x650	580x650x920