





# ELECTRIC CONDENSATE RECOVERY UNITS ECRUV

#### **DESCRIPTION**

The ADCAMat ECRUV series electric condensate recovery units are recommended in the transfer of high-temperature water such as hot condensate, to a higher elevation or pressure. This condensate is usually used as boiler feedwater. The standard models are prepared for flows up to 4 m³/h. The units are composed of a vertical condensate vessel (receiver), a metallic support frame, electric pump, level controls, valves, prewired control panel and pipework for connections between the different elements of the units.

#### **OPERATION**

The condensate is brought into the vessel through the inlet connections, with stainless steel sparge pipes, located on the top of the vessel. As the condensate level rises it will trigger the level control system to start the pumping process.

## MAIN FEATURES

Condensate vessel – Completely manufactured from carbon steel or AISI 316 stainless steel, with inlet connections, overflow, air vents, drain, pump feeding outlets and a set of conductive level switches.

Metal frame – Manufactured from structural carbon steel or stainless steel and sandblasted. Carbon steel version is painted.

Pump – Manufactured from stainless steel, capable of handling hot condensate up to 98 °C and designed for low NPSH.

Control panel – Metal enclosure rated to IP 65 or higher. Features pump fault indication, level alarms, pump dry run inhibitor, operating mode selector switch and volt-free telemetry terminals for remote stats. The unit requires a 3 phase, 380-415 V AC, 50 Hz power supply.



MODELS: ECV150 2T10 - 150L vessel capacity, 2 m³/h

flow rate and 10 m delivery head.

ECV225 4T10 - 225L vessel capacity, 4 m<sup>3</sup>/h

flow rate and 10 m delivery head.

OPTIONS: Thermal insulation.

Frame in stainless steel.

Complete pipelines in stainless steel.

Different pumping capacities.

Alternative designs.

### CERTIFICATION

The ADCAMAT ECRUV is designed to operate exclusively at atmospheric pressure and therefore is outside the scope of the European Pressure Equipment Directive. It complies with the European Machinery Directive and therefore carries the CE mark.

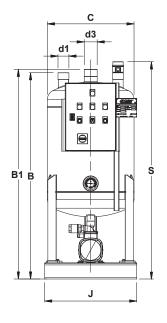
When supplied with an integrated control panel the compliance with the Low Voltage Directive and the Electromagnetic Compatibility Devices Directive is also ensured.

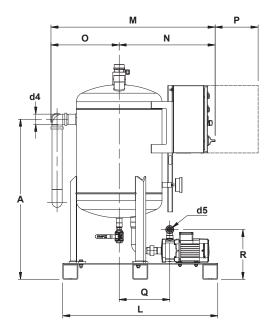
A declaration of conformity is delivered with the equipment according with the relevant Directives in use.

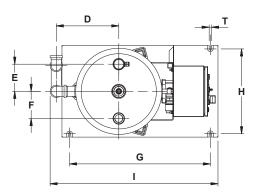












CONNECTIONS								
MODEL	d1 *	d3 *	d4 **	d5 *				
ECV150 2T10	11/2"	2"	2"	1"				
ECV225 4T10	2"	2"	2"	11/2"				

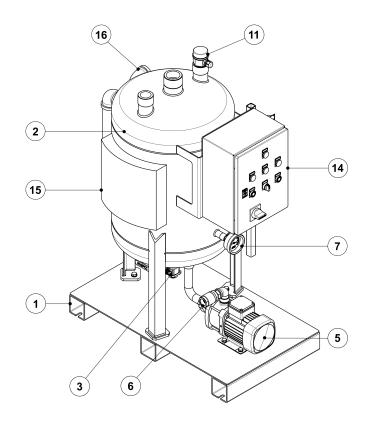
<sup>\*</sup> Female threaded ISO 7 Rp.

\*\* Male threaded ISO 7 R.

DIMENSIONS (mm)																				
MODEL	Α	В	B1	С	D	Е	F	G	Н	I	J	L	М	N	0	Р	Q	R	S	Т
ECV150 2T10	950	1210	1230	508	369	160	160	830	500	990	540	920	974	569	405	255	300	295	1275	14
ECV225 4T10	1400	1680	_	508	369	160	150	890	500	1050	540	980	974	569	405	255	360	359	1725	14







	MATERIAL	s
POS.	DESIGNATION	MATERIAL*
1	Metal frame	S235JR / 1.0038; AISI304 / 1.4301
2	Vessel	AISI 316 / 1.4401; P235GH / 1.0325
3	Ball valve	ADCA M3i5
5	Electric pump	Stainless steel
6	Check valve	ADCA RT25
7	Thermometer	-
11	Conductive switches (multipoint detection)	PP; Stainless steel
14	Control panel	Steel
15	Thermal insulation **	Rockwool / Aluminium
16	Overflow	AISI 316 / 1.4401; P235GH / 1.0325

<sup>\*</sup> References shown are merely indicative. They can be changed without notice.

<sup>\*\*</sup> Optional.





ORDERING	CODES ECRUV									
Model	ECV	150	S	S	2T10	S	S	Х	Х	
ECRUV Electric Condensate Recovery Unit (vertical design)	ECV									
Vessel capacity										
150 liters		150								
225 liters		225								
Vessel material		1								
Carbon steel			S	1						
AISI 316 / 1.4401 stainless steel			ı	1						
Number of electric pumps										
Single pump (3~ 380 – 415 V, 50 Hz)				s						
Maximum flow rate and delivery head in meters at	the mentioned flo	ow								
2 m³/h at 10 metres (with 150 L vessel)					2T10					
4 m³/h at 10 metres (with 225 L vessel)					4T10					
Metal frame										
Fabricated carbon steel						S	]			
Fabricated stainless steel						I	]			
Piping connections	<b>i</b>						1			
Carbon steel							S	]		
Stainless steel							ı	1		
Control panel								]		
Without control panel								Х		
Control panel, conductive switches and wiring								С		
Thermal insu	lation									
Without thermal insulation									Х	
Thermal insulation with aluminium external protection									Т	
Special valve	es / Extras									
Full description or additional codes have to be added in case of a non-s	tandard combinati	on								E