

# TENDER SPECIFICATIONS

## CONDAIR EL/RS-OC

### Electrode steam humidifier for outdoor applications

#### Condair EL-OC (Outdoor)

The Condair EL-OC electrode steam humidifier can be used outdoor where e.g. no central roof unit or no further place in the technical room is foreseen.



- Compact construction
- Anti freeze protection
- Housing: galvanized steel, color grey (RAL9006)
- 4 handles for installation
- Removable doors with twist lock
- Anti freeze protection valve
- For duct applications
- Large performance range within 3 housing sizes
- Hygienic steam quality
- Intelligent construction for convenient and fast servicing
- Installation on wall or frame
- Easily replaceable steam cylinder
- Drain pump
- Accurate control with touch display
- Convenient connection to BMS systems possible
- USB-connector for software and feature update
- Various options available
- Fits the common steam distribution systems

#### Technical specifications

- |                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| • Steam capacity:              | 5 kg/h bis 90 kg/hr                                                                                                |
| • Operating temperature range: | -20°C bis +40°C                                                                                                    |
| • IP protection:               | IP 55                                                                                                              |
| • Housing dimensions L:        | h = 1419 mm, w = 1319 mm, t = 467 mm                                                                               |
| • Housing dimensions M:        | h = 1419 mm, w = 835 mm, t = 467 mm                                                                                |
| • Housing dimensions S:        | h = 1036 mm, w = 729 mm, t = 410 mm                                                                                |
| • Heating voltage:             | 200 V/1~, 230-240 V/1~, 230 V/3~, 200 V/3~, 400-415 V/3~, 440-500 V/3~, 600 V/3~ (please see enclosed option list) |

#### Basic configuration, performance levels

- EL-OC xx\*
- Incl. remote fault indication, drain water cooler and mounting bar
- According current steam cylinder range

\*xx = 5, 8, 10, 15, 20, 24, 30, 35, 40, 45, 50, 60, 70, 80, 90

#### Options

- Please see option list on following page

#### Approvals

- CE 2014/35/EU and CE 2014/30/EU
- EAC TR ZU 004/201

## Condair EL outdoor versions

Additional options in sizes of s, m or l



small  
medium  
large

THV	CVI	CL	LON	BN-IP	BN-MSTP	ACC	DC	ENL
2594346 2585085	2585086 2585087	1115776 1115777	2587508 2587508	2586239 2586239	2586240 2586240	2585083 2585083	2594353 2594353	2594352 2594352
incl.	2594356	1115778	2587508	2586239	2586240	2594348	2594353	2594352

Type	Housing size	Capacity kg/hr	Heating voltage	Inclusive	THV	CVI	CL	LON	BN-IP	BN-MSTP	ACC	DC	ENL	
EL 5-OC	S	5	200V / 1~	RFI, MP-S, DWC			s	x	x	x	s, m	x	x	
EL 8-OC	S	8		RFI, MP-S, DWC				s	x	x	x	s, m	x	x
EL 5-OC	S	5	230V/1~ 240V/1~	RFI, MP-S, DWC	s		s	x	x	x	s, m	x	x	
EL 8-OC	S	8		RFI, MP-S, DWC	s		s	x	x	x	s, m	x	x	
EL 10-OC	S	10		RFI, MP-S, DWC	s		m	x	x	x	s, m	x	x	
EL 5-OC	S	5	230V/3~	RFI, MP-S, DWC	s		s	x	x	x	s, m	x	x	
EL 8-OC	S	8		RFI, MP-S, DWC	s		s	x	x	x	s, m	x	x	
EL 10-OC	S	10		RFI, MP-S, DWC	s		m	x	x	x	s, m	x	x	
EL 15-OC	S	15		RFI, MP-S, DWC	s		m	x	x	x	s, m	x	x	
EL 20-OC	M	20		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 24-OC	M	24		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 30-OC	M	30		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 5-OC	S	5	200V/3~	RFI, MP-S, DWC			s	x	x	x	s, m	x	x	
EL 8-OC	S	8		RFI, MP-S, DWC			s	x	x	x	s, m	x	x	
EL 10-OC	S	10		RFI, MP-S, DWC			m	x	x	x	s, m	x	x	
EL 15-OC	S	15		RFI, MP-S, DWC			m	x	x	x	s, m	x	x	
EL 20-OC	M	20		RFI, MP-M, DWC			l	x	x	x	s, m	x	x	
EL 24-OC	M	24		RFI, MP-M, DWC			l	x	x	x	s, m	x	x	
EL 30-OC	M	30		RFI, MP-M, DWC			l	x	x	x	s, m	x	x	
EL 5-OC	S	5		400V/3~ 415V/3~ (50.60Hz)	RFI, MP-S, DWC	s	s	s	x	x	x	s, m	x	x
EL 8-OC	S	8			RFI, MP-S, DWC	s	s	s	x	x	x	s, m	x	x
EL 10-OC	S	10			RFI, MP-S, DWC	s	s	m	x	x	x	s, m	x	x
EL 15-OC	S	15	RFI, MP-S, DWC		s	s	m	x	x	x	s, m	x	x	
EL 20-OC	M	20	RFI, MP-S, DWC		m	m	l	x	x	x	s, m	x	x	
EL 24-OC	M	24	RFI, MP-S, DWC		m	m	l	x	x	x	s, m	x	x	
EL 30-OC	M	30	RFI, MP-S, DWC		m	m	l	x	x	x	s, m	x	x	
EL 35-OC	M	35	RFI, MP-S, DWC		m	m	l	x	x	x	s, m	x	x	
EL 40-OC	M	40	RFI, MP-S, DWC		m	m	l	x	x	x	s, m	x	x	
EL 45-OC	M	45	RFI, MP-S, DWC		m	m	l	x	x	x	s, m	x	x	
EL 50-OC	L	50	RFI, MP-L, DWC	incl.		l	x	x	x	l	x	x	x	
EL 60-OC	L	60	RFI, MP-L, DWC	incl.		l	x	x	x	l	x	x	x	
EL 70-OC	L	70	RFI, MP-L, DWC	incl.		l	x	x	x	l	x	x	x	
EL 80-OC	L	80	RFI, MP-L, DWC	incl.		l	x	x	x	l	x	x	x	
EL 90-OC	L	90	RFI, MP-L, DWC	incl.		l	x	x	x	l	x	x	x	
EL 5-OC	S	5	440V/3~ 500V/3~	RFI, MP-S, DWC	s		s	x	x	x	s, m	x	x	
EL 8-OC	S	8		RFI, MP-S, DWC	s		s	x	x	x	s, m	x	x	
EL 10-OC	S	10		RFI, MP-S, DWC	s		m	x	x	x	s, m	x	x	
EL 15-OC	S	15		RFI, MP-S, DWC	s		m	x	x	x	s, m	x	x	
EL 20-OC	M	20		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 24-OC	M	24		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 30-OC	M	30		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 35-OC	M	35		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 40-OC	M	40		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 45-OC	M	45		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 5-OC	S	5	600V/3~	RFI, MP-S, DWC	s		s	x	x	x	s, m	x	x	
EL 8-OC	S	8		RFI, MP-S, DWC	s		s	x	x	x	s, m	x	x	
EL 10-OC	S	10		RFI, MP-S, DWC	s		m	x	x	x	s, m	x	x	
EL 15-OC	S	15		RFI, MP-S, DWC	s		m	x	x	x	s, m	x	x	
EL 20-OC	M	20		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 24-OC	M	24		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 30-OC	M	30		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 35-OC	M	35		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 40-OC	M	40		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	
EL 45-OC	M	45		RFI, MP-M, DWC	m		l	x	x	x	s, m	x	x	

### Legend:

THV:	Terminal clamp for heating voltage	BN-IP:	BMS Set Master BACnet IP EL	ENL:	Enclosure lightning
CVI:	Heatingvolt.400V tap neutral lead x Volt	BN-MSTP:	BMS Set Master BACnet MS/TP EL	RFI:	Remote operating and fault indication
CL:	Cleanable cylinder	ACC:	Accessory Board	MP:	Mounting bar
LON:	BMS Set Master Lonworks EL	DC:	Line disconnector holder	DWC:	Drain water cooler / Int. hygiene flush

Mounting racks: S = 2590629, M=2590630, L= 2590631

## Resistive steam humidifier with lime management for outdoor applications Condair RS-OC (Outdoor)

The Condair RS-OC resistive steam humidifier can be used outdoor where e.g. no central roof unit or no further place in the technical room is foreseen.



- Compact construction
- Anti freeze protection
- Housing: galvanized steel, color grey (RAL9006)
- 4 handles for transportation
- Removable doors with twist lock
- For duct applications
- Large performance range within 2 housing sizes
- Patented lime management
- Hygienic steam quality
- Intelligent construction for convenient and fast servicing
- Installation on wall or optional frame
- Drain pump
- Accurate control with touch display
- Convenient connection to BMS systems possible
- USB-connector for software and feature update
- VE option available
- Various options available
- Fits the common steam distribution systems

### Technical specifications

- Steam capacity: 5 kg/hr to 80 kg/hr
- Operating temperature range: -20°C to +40°C
- IP protection: IP 55
- Housing dimensions L: h = 1419 mm, w = 1319 mm, t = 467 mm
- Housing dimensions M: h = 1419 mm, w = 835 mm, t = 467 mm
- Heating voltages: 230-240 V/1~, 230 V/3~, 200 V/3~, 380-415 V/3~, 440-500 V/3~  
600 V/3~ (please see enclosed option list)

### Basic configuration, performance levels

- RS-OC xx\*
- Incl. remote fault indication, separate heating terminals, drain water cooler and mounting bar
- According current steam cylinder range


\*xx = 5, 8, 10, 15, 20, 24, 30, 35, 40, 45, 50, 60, 70, 80

### Options

- Please see option list on following page

### Approvals

- CE 2014/35/EU and CE 2014/30/EU
- EAC TR ZU 004/2011

Condaair RS outdoor versions					Additional options in sizes of s, m or l									
														
					THV	CVI	VE	LON	BN-IP	BN-MSTP	ACC	DC	ENL	
					small	2594344	2580970	variant	2583807	2583809	2583812	2581443	2594353	2594352
					medium	2583690	2580971	configurator	2583807	2583809	2583812	2581443	2594353	2594352
					large	incl.	2594354		2583807	2583809	2583812	2594348	2594353	2594352
Type	Housing size	Capacity kg/hr	Heating voltage	Inclusive										
RS 5-OC	M	5	230V/1~ 240V/1~	RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 8-OC	M	8		RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 10-OC	M	10		RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 5-OC	M	5	230V/3~	RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 8-OC	M	8		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 10-OC	M	10		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 16-OC	M	16		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 20-OC	M	20		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 24-OC	M	24		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 30-OC	M	30		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 16-OC	M	16	200V/3~	RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 20-OC	M	20		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 24-OC	M	24		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 30-OC	M	30		RFI, MP-M, DWC, SV			x	x	x	x	s, m	x	x	
RS 5-OC	M	5	380V/3~ 400V/3~ 415/3~ (50.60Hz)	RFI, MP-M, DWC, SV	s	s	x	x	x	x	s, m	x	x	
RS 8-OC	M	8		RFI, MP-M, DWC, SV	s	s	x	x	x	x	s, m	x	x	
RS 10-OC	M	10		RFI, MP-M, DWC, SV	s	s	x	x	x	x	s, m	x	x	
RS 16-OC	M	16		RFI, MP-M, DWC, SV	s	s	x	x	x	x	s, m	x	x	
RS 20-OC	M	20		RFI, MP-M, DWC, SV	s	s	x	x	x	x	s, m	x	x	
RS 24-OC	M	24		RFI, MP-M, DWC, SV	m	m	x	x	x	x	s, m	x	x	
RS 30-OC	M	30		RFI, MP-M, DWC, SV	m	m	x	x	x	x	s, m	x	x	
RS 40-OC	M	40		RFI, MP-M, DWC, SV	m	m	x	x	x	x	s, m	x	x	
RS 50-OC	L	50		RFI, MP-L, DWC, SV	incl.		x	x	x	x	l	x	x	
RS 60-OC	L	60		RFI, MP-L, DWC, SV	incl.		x	x	x	x	l	x	x	
RS 80-OC	L	80	RFI, MP-L, DWC, SV	incl.		x	x	x	x	l	x	x		
RS 10-OC	M	10	440V/3~, 460V/3~, 480V/3~, 500V/3~	RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 16-OC	M	16		RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 20-OC	M	20		RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 30-OC	M	30		RFI, MP-M, DWC, SV	m		x	x	x	x	s, m	x	x	
RS 40-OC	M	40	RFI, MP-M, DWC, SV	m		x	x	x	x	s, m	x	x		
RS 10-OC	M	10	600V/3~	RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 16-OC	M	16		RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 20-OC	M	20		RFI, MP-M, DWC, SV	s		x	x	x	x	s, m	x	x	
RS 30-OC	M	30		RFI, MP-M, DWC, SV	m		x	x	x	x	s, m	x	x	
RS 40-OC	M	40		RFI, MP-M, DWC, SV	m		x	x	x	x	s, m	x	x	

**Legend:**

THV:	Terminal clamp for heating voltage	BN-IP:	BMS Set Master BACnet IP RS	ENL:	Enclosure lightning
CVI:	Heatingvolt.400V tap neutral lead xVolt	BN-MSTP:	BMS Set Master BACnet MS/TP RS	RFI:	Remote operating and fault indication
SV:	Outlet valve total drainage scale tank	ACC:	Accessory Board	MP:	Mounting bar
VE:	Version for RO water	DC:	Line disconnector holder	DWC:	Drain water cooler / Int. hygiene flush

Mounting racks: M=2590630, L= 2590631