

Project Name:	
Zone:	
Date:	

## IER product data sheet

### Humidification load

Calculated load:		Humidifier model:	
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### Main & standard features

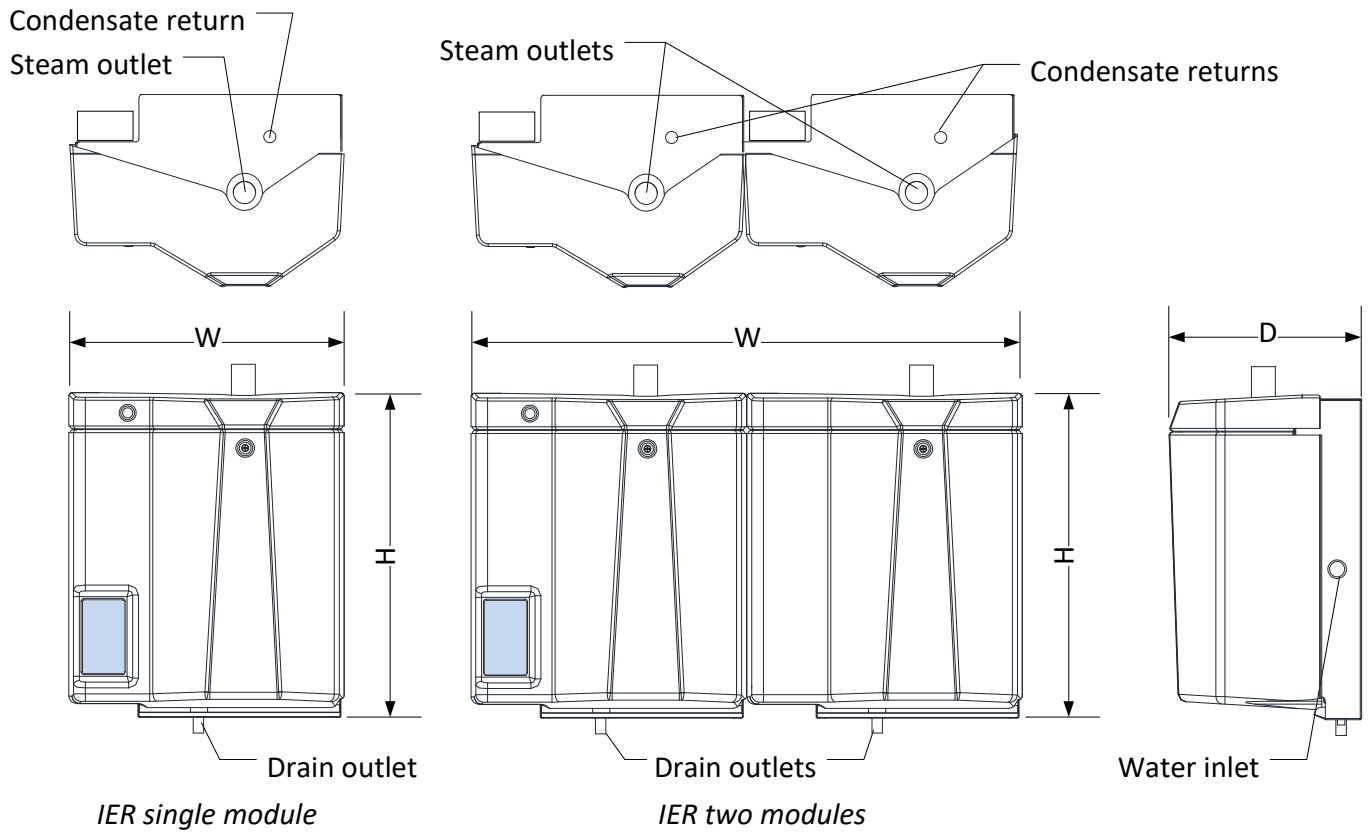
Fully modulating humidifier.  
 Permanent stainless steel cylinder with thermal insulation.  
 Suitable for tap (city) water or RO water without additional option.  
 Easy and quick regular service cleaning in minutes with no tool.  
 Log of events and alarms.  
 Modbus RTU remote communication.  
 Three year warranty (when installation is commissioned with no non conformance by authorized service representative).  
 Certified as per UL998 by TUV-SUD.  
 Drain water automatically cooled down at 140°F [60°C].

### Electrical data

Model	Steam Capacity	Power	Current for following available voltages					
			120Vac 1ph	208Vac 1ph	240Vac 1ph	208Vac 3ph	480Vac 3ph	600Vac 3ph
IER02	6.3b/h [2.8kg/h]	2.1kW	17.5A	11.8A	8.75A	-	-	-
IER04	10lb/h [4.5kg/h]	3.3kW	-	16.0A	13.9A	9.3A	4.0A	3.2A
IER05	15lb/h [6.8kg/h]	5.0kW	-	24.0A	20.8A	13.9A	6.0A	4.8A
IER09	24lb/h [11.4kg/h]	8.3kW	-	40.1A	34.7A	23.1A	10.0A	8.0A
IER12	35lb/h [15.9kg/h]	11.7kW	-	-	44.2A	32.4A	14.0A	11.2A
IER17	50lb/h [22.7kg/h]	16.7kW	-	-	-	46.3A	20.0A	16.0
IER22	65lb/h [29.5kg/h]	21.7kW	-	-	-	-	26.1A	20.8A
IER24	70lb/h [31.8kg/h]	23.4kW	-	-	-	64.8A	-	-
IER31	93lb/h [42.3kg/h]	31.0kW	-	-	-	-	37.3A	29.8
IER34	100lb/h [45.4kg/h]	33.4kW	-	-	-	92.6A	-	-
IER44	130lb/h [59.1kg/h]	43.3kW	-	-	-	-	52.1A	41.7A
IER62	185lb/h [84.1kg/h]	61.7kW	-	-	-	-	74.2A	59.3A

Note: IER is a resistive type humidifier, current rating does need to be oversized, there is no risk of overload.

## Dimensions & weight



Model	Steam Capacity	Module		Steam outlet		Dimensions			Weight	
		Qty	Type	Qty	OD	W	H	D	Net	Oper.
IER02	6lb/h [2.8kg/h]	1	Small	1	1-1/2in [DN40]	20in [51cm]	23in [59cm]	13in [33cm]	45lb [21kg]	74lb [34kg]
IER04	10lb/h [4.5kg/h]									
IER05	15lb/h [6.8kg/h]									
IER09	24lb/h [11.4kg/h]									
IER12	35lb/h [15.9kg/h]	1	Medium	1	2in [DN50]	23in [59cm]	27in [69cm]	17in [43cm]	68lb [31kg]	118lb [54kg]
IER17	50lb/h [22.7kg/h]									
IER22	65lb/h [29.5kg/h]									
IER24	70lb/h [31.8kg/h]	2	Medium	2	2in [DN50]	42in [107cm]	27in [69cm]	17in [43cm]	136lb [62kg]	236lb [107kg]
IER31	93lb/h [42.3kg/h]	1	Medium	1	2-1/2in [DN65]	23in [59cm]	27in [69cm]	17in [43cm]	68lb [31kg]	118lb [54kg]
IER34	100lb/h [45.4kg/h]	2	Medium	2	2in [DN50]	42in [107cm]	27in [69cm]	17in [43cm]	136lb [62kg]	236lb [107kg]
IER44	130lb/H [59.1kg/h]	2	Medium	2	2in [DN50]	42in [107cm]	27in [69cm]	17in [43cm]		
IER62	185lb/h [84.1kg/h]	2	Medium	2	2-1/2in [DN65]					

## Clearances

Front	Left	Right	Top (ceiling)	Bottom (Floor)
30in [75cm]	0in [0cm]	5in [13cm]	12in [30cm]	24in [60cm]

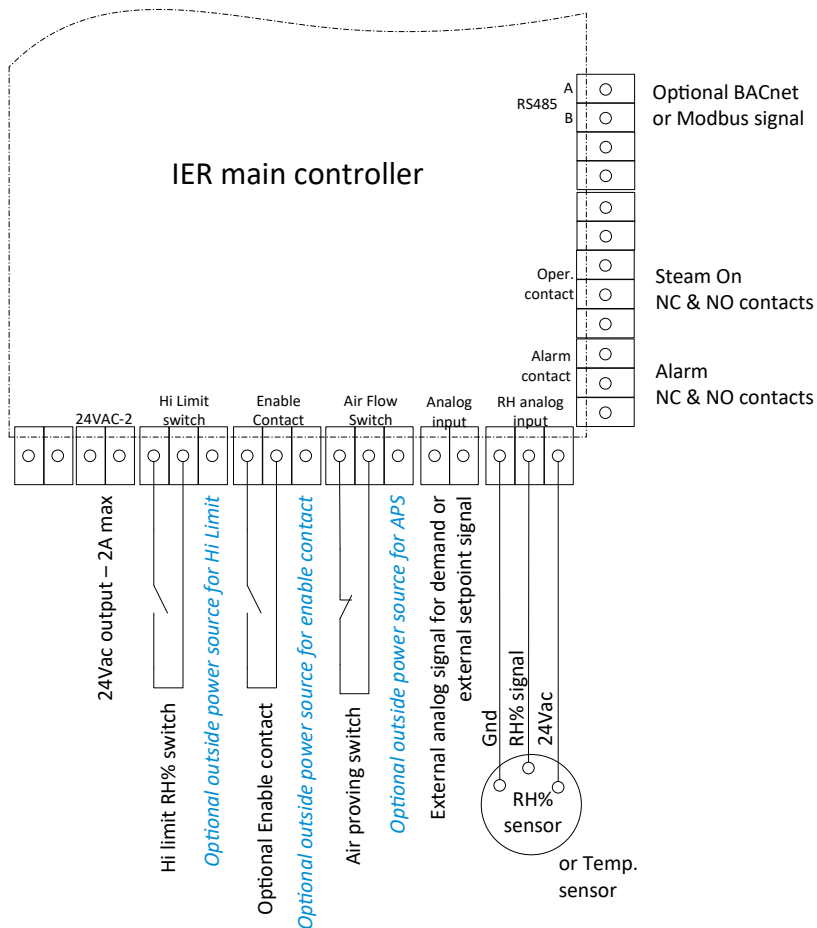
## Water supply & drain

Fill rate	Inlet pressure		Water temperature		Water connection
2.1GPM [8l/min]	Min: 15PSI [200kPa]	Max: 80PSI [550kPa]	Min:37°F [3°C]	Max:105°F [40°C]	3/4G Supplied with S/S braided hose with 3/8 female comp

Water conductivity	Water hardness	Water PH	Chloride content
1 to 1500µS/cm	0 to 16grains/gallon [0 to 15°gH] or [268mg CaCO <sub>3</sub> /l]	6.5 to 7.5	0 to 50ppm max

Drain rate	Water drained temperature	Drain Connection	Condensate return
6.6 GPM [25 l/min] per module	120°F [60°C] When drain cooling function is enabled	1-1/4in [DN32] supplied with EPDM hose coupling	NPT 1/2in female located on top of each cylinder

## Control connections



### Admissible control signals

Proportional External demand, Analog input:  
0-10Vdc, 0-5Vdc, 1-5Vdc, 2-10Vdc or 4-20mA

On-Off external signal, Enable contact:  
Dry contact

Proportional RH% sensor, RH% (or temp.) analog input :  
0-10Vdc, 0-5Vdc, 1-5Vdc, 2-10Vdc or 4-20mA

Modbus signal :  
Modbus through RS485 terminal

Optional BACnet signal :  
BACnet MS/TP through RS485 terminal

### Available feedback signals

Proportional output feedback:  
0-10Vdc

Operation / Steam ON contacts:

NO & NC dry contacts

Alarm contacts

NO & NC dry contacts.