

# **AIR CONDITIONERS**

## FOR INDUSTRIAL SERIES



# Air Conditioners for Industrial Series

## Technical features of EGO Serie Air Conditioners

### WIDE RANGE OF POWER OUTPUTS

The available power outputs range goes from 380 to 2050 W, but on request are also available other products in an extremely compact size with cooling capacity until 14800W, thus covering most of the electrical cabinet cooling requirements

### ELECTRONIC THERMOSTAT

All our air conditioning systems are equipped with electronic thermostat as standard.

### QUICK INSTALLATION

Installation is very quick by simply drilling the cabinet panel and fastening systems which are included in the air conditioner package. On request, a drilling service is available for mounting the air conditioner on the panel and / or door of the Industrial Series IP55 / IP65 rack. This features provisions for the electrical connections to be made quickly and safely using fast connectors inserted in the rear of the unit.

### REDUCED MAINTENANCE

All units are equipped with heat exchange surfaces designed to prevent clogging by solid contaminants present in the ambient air. The condensing coils are protected by a hydrophilic treatment which prevents dirt and corrosion. They maintain high levels of efficiency even in demanding environmental conditions, drastically reducing maintenance requirements and thus allowing the air conditioner to operate without an external air filter.

### IP55 CABINET INGRESS PROTECTION

Thanks to the special internal configuration, which separates the external and internal air flows in a sealed manner, and the new self-adhesive coupling gasket, EGO air conditioners allow the cabinet to retain an IP55 rating.

### ANTI-CONDENSATION EVAPORATION SYSTEM

EGO air conditioners (starting with the EGO08 model) are equipped with an integrated condensate recovery system which allows installation costs to be further reduced.

### ENVIRONMENTAL PROTECTION

Reduction of noise levels is a precise criterion aimed at when developing EGO air conditioners. They have been designed to minimise disturbance from noise and thus help provide quiet working environments. To help protect the environment, these air conditioners use R134a or R407C CFC-free refrigerant, which do not damage the ozone layer.



## Application Tips

- When choosing an air conditioner, keep a margin of safety of at least 10% for the power output, taking the most demanding conditions of operation into account.
- Seal the cabinet well. Any cracks or other openings would significantly reduce the efficiency of the air conditioner and produce excessive amounts of condensate.
- The air conditioner may be installed on the door or the wall, but always in the highest possible position in order to ensure that air is taken in from the top part of the cabinet, where there is a high temperature area.
- The air conditioner is factory set to 35°C, the optimum temperature for most applications. Unless strictly necessary, avoiding lowering this temperature because it would reduce the efficiency of the air conditioner and cause excessive condensate production.
- Try to facilitate the air flow inside the electrical cabinet when designing the layout of the components. Avoid blocking the air inlet or outlet with components installed too close together. Any components with internal ventilation of their own must have their air flow arranged so as to not impede the air flow of the air conditioner.
- Disable the air conditioner if the cabinet doors are opened to prevent excessive condensate production. Install a limit switch on the door for this purpose.
- The air conditioner power supply line must be protected with a time delay fuse or circuit breaker of suitable size on the basis of the unit's technical data.

# Air Conditioners for Industrial Series



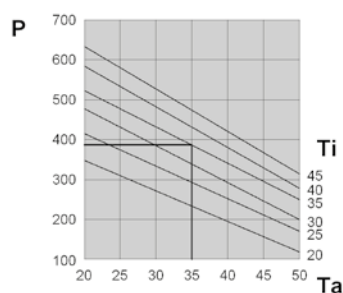
## EGO Air Conditioners for Industrial Series IP55/IP65

### Description

The EGO Series Air Conditioners, characterised by high reliability and high cooling capacity, are the ideal solution for effectively protecting all the equipments present in the IP55 Industrial Rack from overheating.

#### Cooling capacity 380W

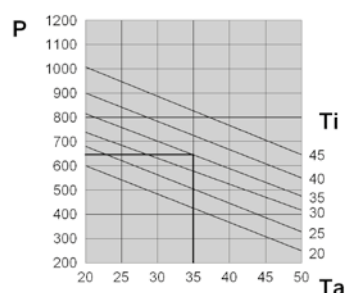
##### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

#### Cooling capacity 640W

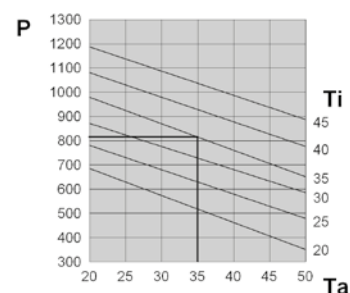
##### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

#### Cooling capacity 820W

##### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

### Technical Specifications

Features	UoM	309215	309223	309224
Cooling Capacity EN14511-A35A35	W	380	640	820
Cooling Capacity EN14511-A35A50	W	240	470	680
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60
Width	mm	285	316	348
Height	mm	460	606	783
Depth	mm	180	212	216
Max Current	A	1,6	2,1	2,6
Inrush Current	A	6	8,1	10,8
T Fuse	A	4	6	6
Power draw EN 14511-A35A35	W	230	380	410
Power draw EN 14511-A35A50	W	260	420	490
Operating Cycle	-	100%	100%	100%
Electrical connection	-	4-pin plug	4-pin plug	4-pin plug
R134a Refrigerant	kg	0,16	0,26	0,28
Max refrigeration circuit pressure	bar	26	25	25
External air fan capacity	m³/h	280	570	570
Cabinet air fan capacity	m³/h	280	330	330
Internal temperature range	°C	20-50	20-50	20-50
Temperature regulation	-	Electronic thermostat, factory set to 35°C		
External temperature range	°C	20-55*	20-55*	20-55*
EN60529 ingress protection - cabinet side	-	IP55	IP55	IP55
EN60529 ingress protection - ambient side	-	IP34	IP34	IP34
Noise level	dB (A)	60	65	65
Weight	kg	17	21	27
Color	-	RAL 7035 embossed effect		
Conformity	-	CE	CE	CE

\*50°C a 60 Hz

subject to technical changes

# Air Conditioners for Industrial Series



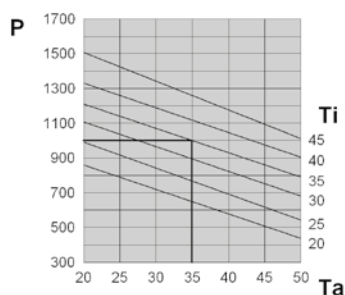
## EGO Air Conditioners for Industrial Series IP55/IP65

### Description

The EGO Series Air Conditioners, characterised by high reliability and high cooling capacity, are the ideal solution for effectively protecting all the equipments present in the IP55 Industrial Rack from overheating.

#### Cooling capacity 1050W

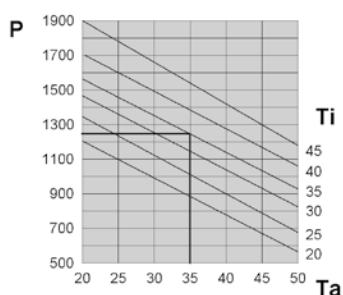
##### Performances



■ P = Cooling Capacity (W)  
■ Ta = Room temperature (°C)  
■ Ti = Cabinet internal temperature (°C)

#### Cooling capacity 1250W

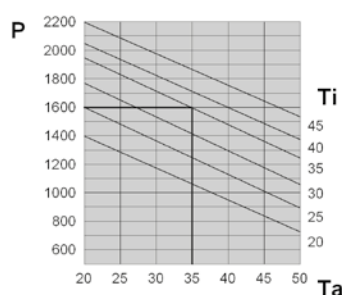
##### Performances



■ P = Cooling Capacity (W)  
■ Ta = Room temperature (°C)  
■ Ti = Cabinet internal temperature (°C)

#### Cooling capacity 1600W

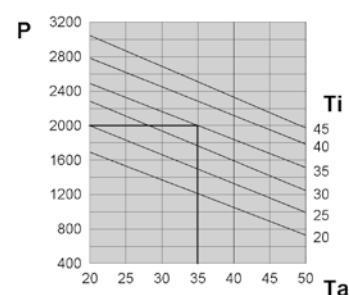
##### Performances



■ P = Cooling Capacity (W)  
■ Ta = Room temperature (°C)  
■ Ti = Cabinet internal temperature (°C)

#### Cooling capacity 2050W

##### Performances



■ P = Cooling Capacity (W)  
■ Ta = Room temperature (°C)  
■ Ti = Cabinet internal temperature (°C)

### Technical Specifications

Features	UoM	309225	309226	309227	309228
Cooling Capacity EN14511-A35A35	W	1050	1250	1600	2050
Cooling Capacity EN14511-A35A50	W	790	910	1230	1510
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60
Width	mm	348	405	405	405
Height	mm	783	999	999	999
Depth	mm	216	237	237	237
Max Current	A	3	3,8	5,3	6,5
Inrush Current	A	10,5	11	18	24
T Fuse	A	6	6	10	10
Power draw EN 14511-A35A35	W	470	680	820	1080
Power draw EN 14511-A35A50	W	560	790	940	1290
Operating Cycle	-	100%	100%	100%	100%
Electrical connection	-	4-pin plug	4-pin plug	4-pin plug	4-pin plug
R134a Refrigerant	kg	0,27	0,38	0,46	0,58
Max refrigeration circuit pressure	bar	25	25	25	25
External air fan capacity	m³/h	570	860	1.050	1.050
Cabinet air fan capacity	m³/h	330	570	570	860
Internal temperature range	°C	20-50	20-50	20-50	20-50
Temperature regulation	-	Electronic thermostat, factory set to 35°C			
External temperature range	°C	20-55*	20-55*	20-55*	20-55*
EN60529 ingress protection - cabinet side	-	IP55	IP55	IP55	IP55
EN60529 ingress protection - ambient side	-	IP34	IP34	IP34	IP34
Noise level	dB (A)	65	65	65	65
Weight	kg	28	38	40	52
Color	-	RAL 7035 embossed effect			
Conformity	-	CE	CE	CE	

\*50°C a 60 Hz

subject to technical changes

# Air Conditioners for Industrial Series

## Technical features of DEK Serie Air Conditioners

### WIDE RANGE OF POWER OUTPUTSE

The available power outputs range from 410 to 2900W, but on request are also available other products in an extremely compact size with cooling capacity until 3850W, thus covering most of the electrical cabinet cooling requirements.

### PROTECTION FROM CONDENSATE

Great attention has been paid to protecting the cabinet from condensate. Inside the air conditioner is a stainless-steel tray in which the condensate is collected, before being drained off through a service hose and second safety hose.

### ELECTRONIC THERMOSTAT

All our air conditioning systems are equipped with electronic thermostat as standard.

### QUICK INSTALLATION

Installation is very quick by simply drilling the cabinet panel and fastening systems which are included in the air conditioner package. On request, a drilling service is available for mounting the air conditioner on the panel and / or door of the Industrial Series IP55 / IP65 rack. This features provisions for the electrical connections to be made quickly and safely using fast connectors inserted in the base of the unit.

### REDUCED MAINTENANCE

All units are equipped with heat exchange surfaces designed to prevent clogging by solid contaminants present in the ambient air. They maintain high levels of efficiency even in demanding environmental conditions, drastically reducing maintenance requirements and thus allowing the air conditioner to operate without an external air filter.

### IP54 CABINET INGRESS PROTECTION

Thanks to the special internal configuration, which separates the external and internal air flows in a sealed manner, and the self-adhesive coupling gasket, DEK air conditioners allow the cabinet to retain an IP54 rating.

### ENVIRONMENTAL PROTECTION

Reduction of noise levels is a precise criterion aimed for when developing DEK air conditioners. They have been designed to minimise disturbance from noise and thus help provide quiet working environments. To help protect the environment, all our air conditioners use R134a CFC-free refrigerant, which does not damage the ozone layer.



## Application Tips

- When choosing an air conditioner, keep a margin of safety of at least 10% for the power output, taking the most demanding conditions of operation into account.
- Seal the cabinet well. Any cracks or other openings would significantly reduce the efficiency of the air conditioner and produce excessive amounts of condensate.
- The air conditioner may be installed on the door or the wall, but always in the highest possible position in order to ensure that air is taken in from the top part of the cabinet, where there is a high temperature area.
- The air conditioner is factory set to 35°C, the optimum temperature for most applications. Unless strictly necessary, avoiding lowering this temperature because it would reduce the efficiency of the air conditioner and cause excessive condensate production.
- Try to facilitate the air flow inside the electrical cabinet when designing the layout of the components. Avoid blocking the air inlet or outlet with components installed too close together. Any components with internal ventilation of their own must have their air flow arranged so as to not impede the air flow of the air conditioner.
- Disable the air conditioner if the cabinet doors are opened to prevent excessive condensate production. Install a limit switch on the door for this purpose.
- The air conditioner power supply line must be protected with a time delay fuse or circuit breaker of suitable size on the basis of the unit's technical data.

# Air Conditioners for Industrial Series



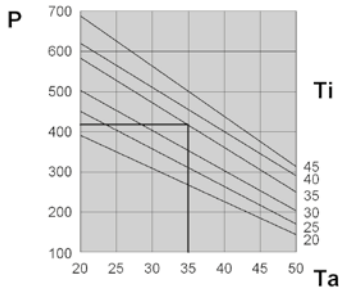
## DEK Air Conditioners for Industrial Series IP55

### Description

The DEK Series Air Conditioners stand out for their high reliability and good cooling capacity, but also for guaranteeing an effective condensate management. Moreover, the compact dimensions and the robust design make it one of the most developed products for roof installations in Industrial IP55 Series Racks.

#### Cooling capacity 410W

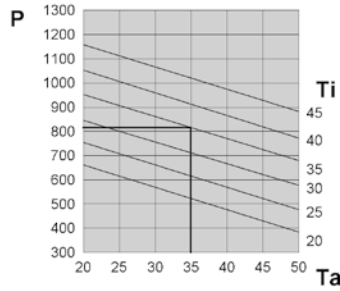
##### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

#### Cooling capacity 820W

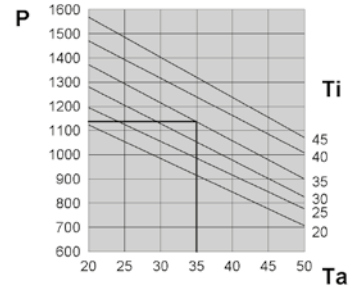
##### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

#### Cooling capacity 1150W

##### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

### Technical Specifications

Features	UoM	309218	309219	309212
Cooling Capacity EN14511-A35A35	W	410	820	1150
Cooling Capacity EN14511-A35A50	W	240	680	900
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60
Width	mm	259	341	401
Height	mm	260	339	415
Depth	mm	481	600	572
Max Current	A	1,5	2,9	3,2
Inrush Current	A	4	12	11
T Fuse	A	4	6	6
Power draw EN 14511-A35A35	W	270	510	550
Power draw EN 14511-A35A50	W	315	560	660
Operating Cycle	-	100%	100%	100%
Electrical connection	-	4-pin plug	4-pin plug	4-pin plug
R134a Refrigerant	kg	0,17	0,31	0,63
Max refrigeration circuit pressure	bar	26	25	25
External air fan capacity	m³/h	330	860	1.010
Cabinet air fan capacity	m³/h	235	570	570
Internal temperature range	°C	20-50	20-50	20-50
Temperature regulation	-	Electronic thermostat, factory set to 35°C		
External temperature range	°C	20-55*	20-55*	20-55*
EN60529 ingress protection - cabinet side	-	IP55	IP55	IP55
EN60529 ingress protection - ambient side	-	IP34	IP34	IP34
Noise level	dB (A)	60	62	65
Weight	kg	18	23	40
Color	-	RAL 7035 embossed effect		
Conformity	-	CE	CE	CE

\*50°C a 60 Hz

subject to technical changes

# Air Conditioners for Industrial Series



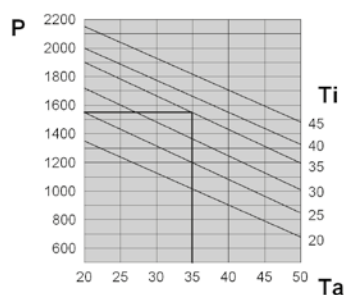
## DEK Air Conditioners for Industrial Series IP55

### Description

The DEK Series Air Conditioners stand out for their high reliability and good cooling capacity, but also for guaranteeing an effective condensate management. Moreover, the compact dimensions and the robust design make it one of the most developed products for roof installations in Industrial IP55 Series Racks.

### Cooling capacity 1550W

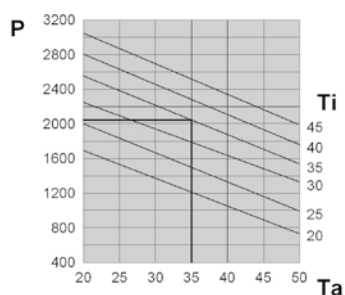
#### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

### Cooling capacity 2050W

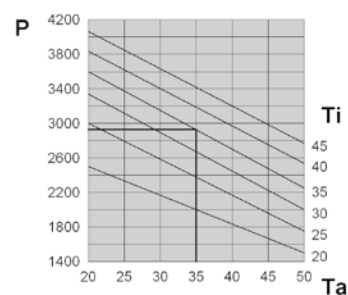
#### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

### Cooling capacity 2900W

#### Performances



- P = Cooling Capacity (W)
- Ta = Room temperature (°C)
- Ti = Cabinet internal temperature (°C)

## Technical Specifications

Features	UoM	309220	309221	309222
Cooling Capacity EN14511-A35A35	W	1550	2050	2900
Cooling Capacity EN14511-A35A50	W	1200	1560	2250
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60
Width	mm	401	401	492
Height	mm	415	415	496
Depth	mm	572	572	784
Max Current	A	4,5	6	8,2
Inrush Current	A	18	24	38,4
T Fuse	A	8	10	16
Power draw EN 14511-A35A35	W	810	1190	1350
Power draw EN 14511-A35A50	W	930	1300	1610
Operating Cycle	-	100%	100%	100%
Electrical connection	-	4-pin plug	4-pin plug	4-pin plug
R134a Refrigerant	kg	0,54	0,55	1,26
Max refrigeration circuit pressure	bar	25	25	25
External air fan capacity	m <sup>3</sup> /h	1820	1820	3410
Cabinet air fan capacity	m <sup>3</sup> /h	860	1.050	860
Internal temperature range	°C	20-50	20-50	20-50
Temperature regulation	-	-	-	-
External temperature range	°C	20-55*	20-55*	20-55*
EN60529 ingress protection - cabinet side	-	IP55	IP55	IP55
EN60529 ingress protection - ambient side	-	IP34	IP34	IP34
Noise level	dB (A)	65	65	75
Weight	kg	44	50	80
Color	-	RAL 7035 embossed effect		
Conformity	-	CE	CE	CE

subject to technical changes



# Ventilation Units



## Ventilation units with filter for Industrial Series Rack IP55/IP65

### Description

The FAN Series ventilation units are characterized by rapid installation and easy maintenance. The standard air flow direction is from the exterior to the interior of the cabinet for all ventilation units. The user can easily invert this by simply removing and reinstalling the fan in the reverse direction.

### Technical Specifications

Features	UoM	309199	309200
Air flow rate	m <sup>3</sup> /h	230/262	520/580
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60
Dimensions (A)x(L)x(P)	mm	250 x 250 x 114	325 x 325 x 153
Power draw	W	45/40	85/115
Max Current	A	0,35/0,28	0,38/0,50
Overcurrent protection	-	Internal motor	Internal motor
Electrical connection	-	Faston	Cable
Operating Cycle	-	100%	100%
Temperature limits	°C	10/+50	-20/+60
IP rating EN60529	-	IP54	IP54
IP rating EN60529 (Kit IP55)	-	1 x 309204	1 x 309230
Noise level	dB (A)	56/58	61/63
Fan + FIL air flow rate	m <sup>3</sup> /h	1 x 309197: 195/220 2 x 309197: 215/233 1 x 309198: 205/228	1 x 309198: 387/431
Air flow direction	-	Ext. to int. reversible	
Filter (Eurovent)	-	EU4	-
Motor support	-	Bearings	Bearings
Lifetime L	h	45000	45000
Weight	kg	1,4	3,1
Color	-	RAL 7035 embossed effect	RAL 7035 embossed effect
Conformity	-	CE	CE

# Ventilation Units



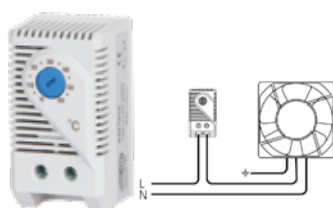
## Roof mount fans for Industrial Series Rack IP55/IP65

### Description

Characterized by the easy installation an attractive and innovative design, the roof ventilation tower of the DLK Series is the ideal solution when the required air flow is higher than that available with the FAN Series.

### Technical Specifications

Features	UoM	309201	309202
Air flow rate	m <sup>3</sup> /h	600/625	1050/1085
Fan tower + air flow capacity	m <sup>3</sup> /h	550/590	800/950
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60
Dimensions HxWxD	mm	122 x 375 x 375	122 x 375 x 375
Power draw	W	78/106	123/168
Max Current	A	0,32/0,40	0,52/0,65
Overcurrent protection	-	Internal motor	Internal motor
Electrical connection	-	Cable	Cable
Operating Cycle	-	100%	100%
Temperature limits	°C	-20/+60	-20/+60
IP rating EN60529	-	IP44	IP44
IP rating EN60529	-	1 x 309203: IP54	1 x 309203: IP54
Noise Level	dB (A)	62/64	71/72
DLK+FIL35XNOB air flow capacity	m <sup>3</sup> /h	500/540	700/730
Air flow direction	-	Interior to exterior	Interior to exterior
Motor support	-	Bearings	Bearings
Weight	kg	6	7
Colour	-	RAL 7035 embossed effect	RAL 7035 embossed effect
Conformity	-	CE	CE



## Thermostat for ventilation units and roof mount fan

### Description

Compact thermostat with a large adjustment scale. It has a normally open contact and is mainly used to control fans, heat exchangers or as a maximum temperature signal.

### Technical Specifications

Features	UoM	309229
Field of regulation	°C	0-60
Activation Differential	K	7
Contact	-	No
Contact capacity with resistive load	A	10
Max voltage	V	250 AC
Dimensions HxWxD	mm	60 x 35 x 35
Sensitive element	-	Bimetallic
Electrical connection	-	2-pole terminal board (2,5 mm <sup>2</sup> )
Operating temperature limit	°C	-10 + 80
Clip installation for DIN rail	mm	IP20
IP rating EN60529	-	35
Weight	g	40
Conformity	-	CE

subject to technical changes