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#### DESCRIPTION

#### **DESCRIPTION**

eCO Top is a top connected unit in three sizes that require minimal space. Compact dimensions and low noise data provides great flexibility in the placement of the unit. All duct connections are on top of the unit. The unit is supplied with energy saving plug fans, supply and extract air filters and a rotating heat exchanger. The ISYteq Mini control system is integrated with the unit and is ready for use with a large number of functions.

#### **QUALITY & ENVIRONMENT**

All units and components from FläktGroup are designed, tested and manufactured in accordance with applicable standards including the quality assurance system ISO 9001, the environmental management system ISO 14001.

Substance	Proportion	Recycable	To landfill
Metals	92%	X	
Polymers	2.5%	X	X
Mineral wool insulation	5.0%	X	
Other	0.5%		X

#### **PRODUCT DATA**

- Air flow range 100-800 l/s
- High thermal efficiency, up to 85% according to EN308
- Speed controlled rotary heat exchanger
- Built-in ISYteq Mini control system
- Built-in post heater (Duct mounted electrical post heater for size 06)
- Simple installation with all connections on top
- Internal silencer (accessory)
- Top and bottom cover available as accessories when unit is placed in public areas
- Attractive design
- Outside of the casing is painted white
- Modbus and Ethernet as standard

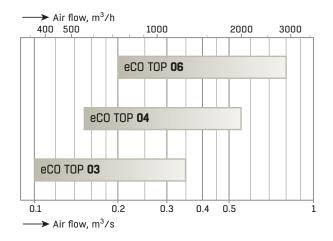
#### **TYPICAL INSTALLATIONS**

The eCO Top has a wide range of applications and can be installed in most buildings that require ventilation such as schools, offices, conference centers and shops.

When using the accessories internal silencer, top and bottom cover eCO Top can be placed in public areas.

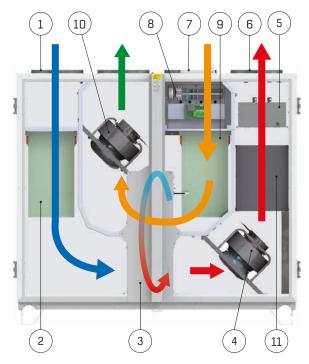


#### **AIRFLOW DIAGRAM**



## **COMPONENTS**

#### **COMPONENTS**



- Outdoor air
- Supply air
- Extract air
- Exhaust air
- 1 Outdoor air sensor GT3
- 2 Supply filter
- 3 Rotary heat exchanger with rotation sensor
- 4 Supply fan
- 5 Electrical heater including overheating protection alternatively hot water coil with freeze protection GT5
- 6 Supply air sensor GT1
- 7 Extract air sensor GT12
- 8 Control equipment
- 9 Extract filter
- 10 Exhaust fan
- 11 Internal silencer (accessory)

#### **CASING**

The unit is made of galvanized sheet steel and the outside is painted white. The casing is insulated with 50 mm mineral wool. Service hatches for the fans and filter have handles with locks. The unit is supplied on a stable base. Adjustable feet's are a vailable as accessories.

- Corrosivity class C3
- Permeability CEN class L1(M) (CEN class A)
- Mechanical Strength of casing class D1(M)
- Filter bypass leakage class (F7) ePM1 50%
- Thermal performance of casing (Heat transfer class) corresponding to class T2
- Thermal bridging corresponding to TB2

#### **FILTER**



Green Flo bag filter made of PLA for low pressure drop. Filter class (F7) ePM1 50% on both supply and extract air. The filters are pressed against the sealing strip in the casing.

#### **ROTARY HEAT EXCHANGER**



Speed controlled rotor made of non-hygroscopic aluminum provided with a purging sector and rotation sensor. During normal ventilation there is no need for defrosting.

At a relative humidity of the extract air above 30% and an outdoor temperature lower than  $-15^{\circ}$  C there may be a risk of frosting.

#### **COMPONENTS**

#### **FAN**



eCO Top gives you top performance and overall economy combined with low noise levels. The high efficiency plug fans are powered by energy saving EC motors. The fan speed can be adjusted independently by the unit's ISYteq Mini control system. Flow, pressure or 3-speed control can be selected.

## POST HEATER, HOT WATER



Hot water coil containing copper tubes and aluminum fins. Pipe connection ø15 mm. Freeze protection temperature sensor is included. Max operating pressure 1.0 MPa.

#### **PIPE CONNECTIONS**

Size 03 = 3/8"

Size 04 = 12 mm

Size 06 = 12 mm

## **POST HEATER, ELECTRICAL**



The electric heater has built-in control equipment for power control. The element is made of stainless steel. The heater has two thermal overload protection devices, one with an automatic reset and one with a manual reset.

The heater for size 03 and 04 is built-in. Size 06 has a duct mounted electrical post heater 600 x 300 mm, length 425 mm.

#### **INTERNAL SILENCER (ACCESSORY)**



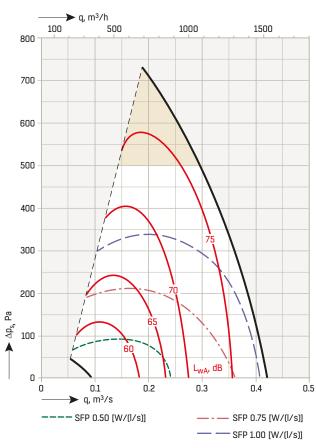
The unit can be ordered with an internal silencer in the supply air which decreases the noise to supply air with approximately 8 dB(A).

The internal silencer also has a positive effect on the noise level to the room.

See selection program Acon for sound calculation.

#### **TECHNICAL DATA - SIZE 03**

#### **SUPPLY FAN**



#### SYSTEM OVERVIEW

The diagrams show the available external pressure drop for the duct system and external components at  $\eta_{temp}\,80\%$ . Use selection program Acon for calculation. The weighted noise levels given in dB(A) apply to ducts on the fan's outlet side.

The SFP values for each fan are calculated according to the Swedish Association of Air Handling Industries (V document 1995:1 rev. 2000). That means, clean filters, consideration taken to leakage, purging sector airflow and any additional pressure drop for correct pressure balance. Add the SFP values for each fan to get the SFP value for the entire unit.

#### **ELECTRICAL DATA**

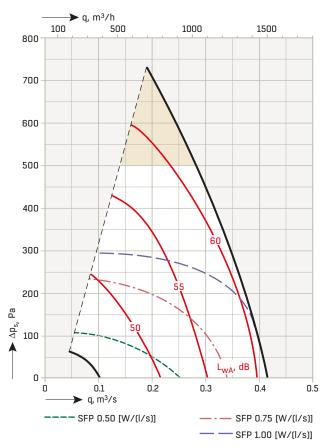
The mains supply cable must be fitted with an external safety switch, which can cut the current to the entire unit.

Ambient temperature during operation 0 - 40° C

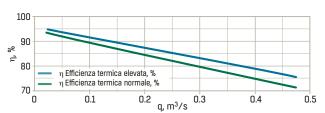
Unit with	Hot water coil	Electrical coil
Supply	1 x 230 V	3 x 400 V
Fuse	10 A	10 A

Motor data	0.385 kW x 2	2.5 A x 2	1 x 230 V
Electrical heater	4 kW	10 A	2 x 400 V

#### **EXHAUST FAN**



#### **TEMPERATURE EFFICIENCY**

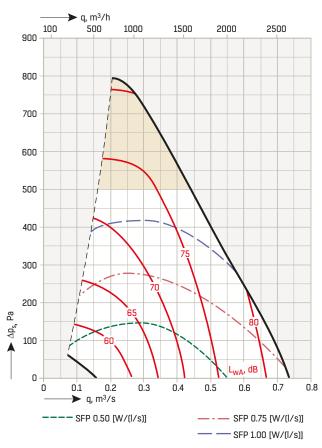


#### **FILTER**

Bag filters, class (F7) ePM1 50% in supply and extract air.

#### **TECHNICAL DATA - SIZE 04**

#### **SUPPLY FAN**



#### SYSTEM OVERVIEW

The diagrams show the available external pressure drop for the duct system and external components at  $\eta_{temp}\,80\%$ . Use selection program Acon for calculation. The weighted noise levels given in dB(A) apply to ducts on the fan's outlet side.

The SFP values for each fan are calculated according to the Swedish Association of Air Handling Industries (V document 1995:1 rev. 2000). That means, clean filters, consideration taken to leakage, purging sector airflow and any additional pressure drop for correct pressure balance. Add the SFP values for each fan to get the SFP value for the entire unit.

#### **ELECTRICAL DATA**

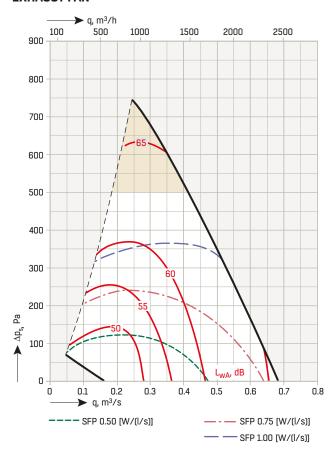
The mains supply cable must be fitted with an external safety switch, which can cut the current to the entire unit.

Ambient temperature during operation 0 - 40° C

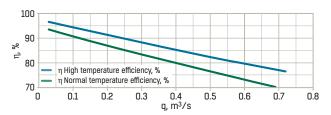
Unit with	Hot water coil	Electrical coil
Supply	1 x 230 V	3 x 400 V
Fuse	10 A	16 A

Motor data	0.5 kW x 2	2.2 A x 2	1 x 230 V
Electrical heater	6 kW	15 A	2 x 400 V

#### **EXHAUST FAN**



#### **TEMPERATURE EFFICIENCY**

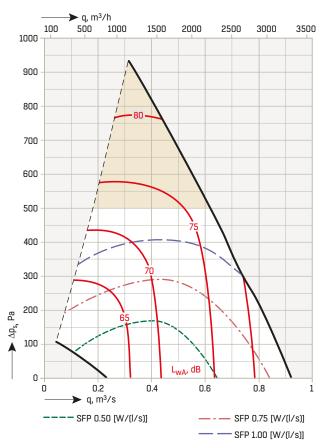


#### **FILTER**

Bag filters, class (F7) ePM1 50% in supply and extract air.

#### **TECHNICAL DATA - SIZE 06**

#### **SUPPLY FAN**



#### SYSTEM OVERVIEW

The diagrams show the available external pressure drop for the duct system and external components at  $\eta_{temp}\,80\%$ . Use selection program Acon for calculation. The weighted noise levels given in dB(A) apply to ducts on the fan's outlet side.

The SFP values for each fan are calculated according to the Swedish Association of Air Handling Industries (V document 1995:1 rev. 2000). That means, clean filters, consideration taken to leakage, purging sector airflow and any additional pressure drop for correct pressure balance. Add the SFP values for each fan to get the SFP value for the entire unit.

#### **ELECTRICAL DATA**

The mains supply cable must be fitted with an external safety switch, which can cut the current to the entire unit.

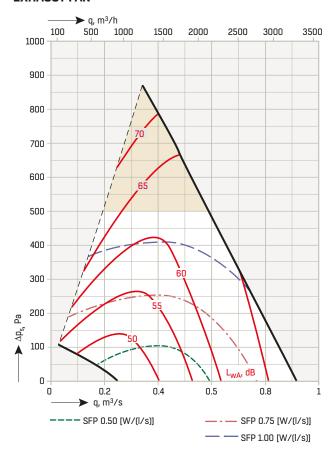
Ambient temperature during operation 0 - 40° C

Unit with	Hot water coil	Electrical coil
Supply	1 x 230 V	1 x 230 V
Fuse	10 A	10 A

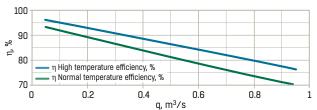
Motor data	0.75 kW x 2	3.3 A x 2	1 x 230 V
Electrical heater <sup>1]</sup>	9 kW	13 A	3 x 400 V

<sup>1)</sup> Electrical heater has a separate supply.

#### **EXHAUST FAN**



### **TEMPERATURE EFFICIENCY**



#### **FILTER**

Bag filters, class (F7) ePM1 50% in supply and extract air.

## **DIMENSIONS AND WEIGHT**

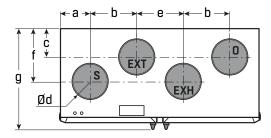


DETAILED PICTURES SHOW THE LOCATION OF THE PIPE TRANSIT FOR HOT WATER COIL.

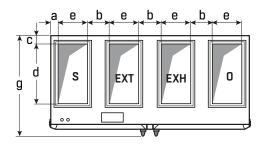
Size	В	D	Н	а	b	С	d	е	f	g	h1	W
03	1570	678	1210	220	360	217	Ø250	410	393	800	139	260
04	1720	778	1040	250	045	247	Ø315	410	463	900	139	300
06	1990	888	1040	71	216	85	600	300	-	10001)	139	040

All dimensions in mm, W = weight in kg

## **CONNECTIONS SIZE 03 AND 04, LEFT HAND VERSION**



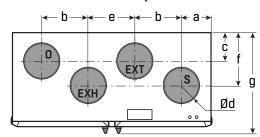
## **CONNECTIONS SIZE 06, LEFT HAND VERSION**



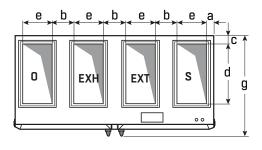
S = supply air

**0** = Outdoor air

## **CONNECTIONS SIZE 03 AND 04, RIGHT HAND VERSION**



## **CONNECTIONS SIZE 06, RIGHT HAND VERSION**



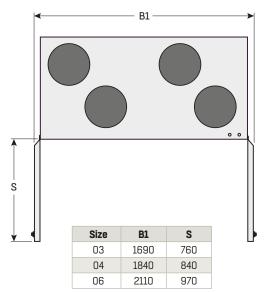
EXT = Extract air

EXH = Exhaust air

<sup>&</sup>lt;sup>1)</sup> To move size 06 through a 900 mm opening, remove the doors and the central strut.

## MAINTENANCE SPACE, ACCESSORIES

#### **MAINTENANCE SPACE**



B1 = width with open doors

S = minimum service space

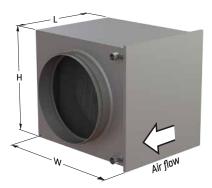
in front of the control cabinet there has to be enough space according to local electrical regulations.

## **ACCESSORIES, GENERAL**

All accessories have rectangular PG connection.

Adapter PG / flange available as accessories. Four adapters for duct connection are included the size 06.

#### **DUCT MOUNTED COOLING COIL - RDTZ-14**



Size	ØD	W	Н	L	Weight, kg
03	250	486	405	356	13
04	315	560	504	356	16
06	400	710	529	460	21,4

Cold water coil containing copper tubes and aluminum fins. The coil is built-in to a galvanized sheet steel casing. The casing has a removable hatch for cleaning and duct connections with rubber ring seals. The cooler has to be installed horizontally and the distance to nearest bend has to be at least 600 mm. The cooler is only available in a left-hand version.

Venting and draining is carried out via the pipe system. The pipe connection,  $\emptyset$  22 mm, is located on the outlet end, is smooth and is intended for a compression fitting. The drainage tray is in stainless steel and has an R 1/2" connection.

Maximum operating pressure 1.0 MPa and maximum operating temperature 150° C.

#### SHUT OFF DAMPER WITH ACTUATOR - RDTZ-87



Size	L	Α	Weight, kg
03	125	270	3.2
04	125	305	3.6

Duct mounted damper in leakage class 3 (CEN 3). The damper is made of galvanized sheet steel and has a spring return on/off actuator. The actuator has to be connected to a terminal block in the electrical cabinet.

Size 03 and 04 have circular duct connections, see table above. Size 06 has rectangular duct connections  $600 \times 300$  mm, length 130 mm.

The damper has duct connections with rubber ring seals and can be mounted directly onto the unit or in the duct system. It is designed for duct insulation of up to 50 mm.

At air speeds below 10 m/s an d the damper fully open the sound power level is below 20 dB.

A shut-off damper with spring return actuator shall be used for units with water coil.

#### **MOUNTING FEET - RDTZ-13**



The height of the mounting feet can be adjusted between 55 - 120 mm. The unit can be placed directly onto the surface if this is flat and horizontal.

#### **ACCESSORIES**

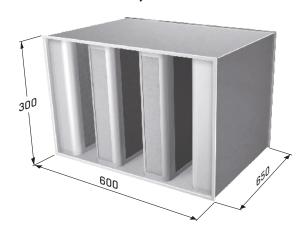
#### SILENCER, CIRCULAR - RDTZ-16



The silencer is a straight circular duct silencer with 50 mm mineral wool filling. Duct connections have rubber seals. The silencer consists of a perforated sheet metal pipe surrounded by a galvanized sheet steel mantle and end pieces sandwiching mineral wool covered with nonwoven fabric to prevent fiber migration. Fire resistance rating El30.

The distance to the fan has to be at least 300 mm.

## **RECTANGULAR SILENCER, DUCT MOUNTED - RDTZ-15**



The silencer is intended to be connected to a rectangular duct or directly to the unit. The casing has no isolation. The sound baffles are covered with glass fabric for dry cleaning.

The silencer has a casing of galvanized sheet steel with baffles with rounded fronts. The gap between the baffles narrows in the direction of the air flow to get the lowest possible pressure drop.

The baffles have a filling of mineral wool for attenuation. The silencer fulfills leakage class C if the duct connections are correctly performed.

#### **SPARE FILTER - RDTZ-81**



Bag filters for supply and extract air. Filter Class (F7) ePM1 50%.

#### **FLEXIBLE CONNECTION - RDTZ-55**

Flexible connection in fiber glass for connection of ducts.

#### **MANOMETER, AIR FLOW - RDTZ-56**

Manometer for air flow measurement. Cannot be used together with Constant Air Volume control.

#### **MANOMETER, FILTER - RDTZ-07**



Manometer for measuring filter pressure drop.

## **DRAIN TRAP - RDTZ-08**

Compact drain trap for duct mounted cooling coil.

## **ACCESSORIES**

#### **TOP COVER - RDTZ-20**



The cover has the same white color as the unit and is used to hide the duct work. The cover is delivered unmounted. It is intended for ceiling heights, 2400 mm.

## **BOTTOM COVER - RDTZ-21**



The cover has the same white color as the unit and is delivered unmounted. It is intended for units without mounting feet.

# CONVERTER FROM RECTANGULAR TO CIRCULAR – RDTZ-24



For unit size 06. Converter 600 x 300 mm to  $\emptyset$ 400 mm. Length 400 mm.

## **CONVERTER FROM PG TO FLANGE - RDTZ-25**



4 pcs 600 x 300 mm included and mounted on the unit for size 06.

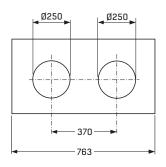
#### **ACCESSORIES**

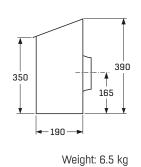
#### **COMBINATION COVER - RDTZ-59-03**



Cover for outdoor air and exhaust air, intended for wall mounting. The cover prevents mixing of the two air flows. It is made of plastic coated sheet metal.

## **DIMENSIONS - RDTZ-59-03**



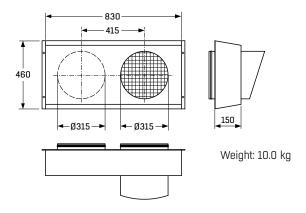


#### **COMBINATION COVER - RDTZ-59-04**

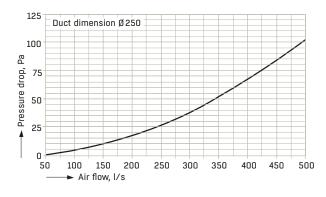


Cover for outdoor air and exhaust air, intended for wall mounting. The cover prevents mixing of the two air flows. It is made of plastic coated sheet metal.

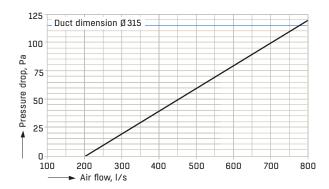
## **DIMENSIONS - RDTZ-59-04**



#### PRESSURE DROP - RDTZ-59-03



#### PRESSURE DROP - RDTZ-59-04



#### **CONTROL FUNCTIONS**

#### **GENERAL**

eCO Top is supplied with integrated control platform ISYteq Mini including the ISYteq Touch 3.5 control panel.

The ISYteq Mini platform has been developed to be easy to use.

All internal components are pre-connected and the unit is factory tested

The control system can communicate via Modbus RS485 or Modbus TCP/IP.

Functions that are ordered together with the unit are activated and configured from factory. Some functions are possible to activate on site.



#### STANDARD FUNCTIONS

- Supply air control
- Fan control (3 speed)
- Stepless speed control of RHE
- Cooling recovery
- Frost protection sensor, units with hot water coil
- Schedules
- Control circuit for pumps, max 2A
- Inlet for external fire alarm

#### **FUNCTIONS THAT CAN BE ACTIVATED ON SITE**

- Extract air control
- Outdoor air temperature compensation
- Night cooling

#### **ACCESSORIES**

- Defrosting
- Filter monitor
- Room control
- Extended / forced operation through external timer or PIR
- COP, CAV or CO2 control

The fans in the eCO Top have three different speeds: Low, Normal and High. Switching fan speed is carried out using schedules, an external timer, push button or PIR, flow, pressure or  ${\rm CO_2}$  control is available as accessories.

## **TEMPERATURE CONTROL**

Following options are available:

## **Supply air control**

Maintain the supply air temperature.

#### **Extract air control**

Maintain the extract air temperature through cascade control of the supply air temperature with minimum and maximum limitation.

#### Room control (accessory)

Maintain the room temperature through cascade control of the supply air temperature with minimum and maximum limitation.

#### **OUTDOOR TEMPERATURE COMPENSATION**

The supply air temperature set point is changing depending on the outdoor air temperature. Not in combination with extract air or room control.

#### **NIGHT COOLING**

Night cooling is used during warm summer nights in order to reduce the indoor temperature. This is provided by cooling the warm indoor air with cold outdoor air.

When both the room temperature and outdoor temperature exceeds the set threshold value, and the difference between these values exceeds the difference set point, the unit is started in order to cool the building.

## **COOLING RECOVERY**

The rotary heat exchanger will start to cool the supply air when the extract air temperature is lower than the outdoor air temperature and there is a cooling demand.

## **CONTROL OF POST HEATER**

Control signal 0-10 V for valve actuator or electrical heater with a built-in thyristor.

#### **FREEZE PROTECTION**

The valve is controlled to keep the water return temperature above 15°C. If the temperature drops below 7°C the unit is stopped and an alarm is generated. When the unit is not in operation the water temperature is maintained at 25°C.

#### **CONTROL FUNCTIONS**

#### **CIRCULATION PUMPS**

The control system can start and stop circulation pumps for heating and cooling. The pumps starts up every 24 h for a test run. The maximum current for both pumps is 2A.

#### **CONTROL OF COOLING COIL**

Control signal 0-10~V for valve actuator or a start signal for a cooler with direct expansion, DX.

#### **FIRE PROTECTION**

A separate fire protection system can be connected to stop the unit

Smoke detectors and fire dampers can not be connected to the unit. A separate fire protection system is needed.

#### **COMMUNICATION**

The control system can communicate via Modbus RS485 or Modbus TCP/IP.

#### **FILTER MONITOR RDTZ-28 (ACCESSORY)**

Generates an alarm if the pressure drop over the filter exceeds the set point.

### **DEFROSTING RDTZ-80 (ACCESSORY)**

A pressure monitor is used to determine if defrosting is necessary.

# EXTENDED/FORCED OPERATION, EXTERNAL TIMER RDTZ-91-1 (ACCESSORY)

External timer, 0-5 hours.

# EXTENDED/FORCED OPERATION, PIR RDTZ-92-1 (ACCESSORY)

Delivered separately for mounting on site.

#### **SAFETY SWITCH RDTZ-89**

Delivered separately for mounting in connection to the unit.

#### **VALVE/ACTUATOR FOR HEATING/COOLING COIL RDTZ-70**

Delivered separately for mounting on site.

## **ORDERING KEY**

Energy recovery unit eCO Top	RDTP-aa-b-c-d-e-ff	Circular duct nounted cooling coil	RDTZ-14-bb-c-d
Size (aa)		Size (bb)	
03, 04, 06		03, 04, 06	
Supply side and efficiency (b)		Type (c)	
1 = Right, Standard efficiency, RHE = 80%		1 = Water	
2 = Left Standard efficiency, RHE = 80%			
3 = Right, High efficiency, RHE = 85%		Connection side (d)	
4 = Left, High efficiency, RHE = 85%		2 = Left	
Fan speed control (c)		Filter monitor	RDTZ-28-b-1
1 = Standard, 3-speed			
2 = COP, Constant Pressure, Supply/exhaust		Type (b)	
3 = CAV Constant air volume, Supply/exhaust		1 = Filter monitor, supply/exhaust	
$4 = CO_2$ control (internal sensor)		1 - 1 iller monitor, supply/ exhaust	
4 = 002 control (internal conser)		Safety switch	RDTZ-89-bbb-1
Post heater options (d)		Delievered separately	KD12-03-DDD-1
O = Without		Delievered Separately	
1 = Electrical (duct mounted for size 06)		Current (bbb)	
		016 = 16 A	
2 = Hot water		010 = 10 A	
Filter Supply / Exhaust (e)		Extended/forced operation, external timer	RDTZ-91-1
1 = (F7) ePM1 50% bag filter		, , , , , , , , , , , , , , , , , , , ,	
		Extended/forced operation, PIR	RDTZ-92-1
Language (ff)		• •	
01 = Swedish		Valve/actuator for heating/cooling coil	RDTZ-70-b-c-d-eee
03 = English		ů ů	
04 = Finnish		Scope of supply (b)	
07 = French		1 = Actuator only	
		2 = Valve with actuator	
ACCESSORIES		3 = Valve only	
Adjustable mounting feet, kit	RDTZ-13-1	,	
Adjustable mounting leet, KK	ND12 13 1	Type of valve (c)	
Drain trap	RDTZ-08-1	0 = Without (b = 1)	
		2 = 2-way	
Temperature control	RDTZ-61-b-c	3 = 3-way	
Control cituation (b)		Location (d)	
Control situation (b)		1 = Värme	
2 = Extract air control	a a mayatalı û	2 = Kyla	
3 = Room air control (room sensor delievered		E - Nylu	
4 = Supply air control with outdoor air compen	sation	kvs-value (eee)	
Generation (c)		002 = 0.25	
1		004 = 0.40	
		UUE	
Defrosting	RDTZ-80-b-c	006 = 0.63	
		006 = 0.63	
Type (b)		006 = 0.63	
		006 = 0.63	
Type (b)		006 = 0.63	

FläktGroup DC\_982GB\_20190115\_R5 Specifications are subject to alteration without notice

## **ORDERING KEY**

Spare filter	RDTZ-81-bb-c	HMI extra cabel	RDTZ-76-bb
Oine (hh)		Louiside (Inlia)	
Size (bb)		Length (bb)	
03, <i>04</i> , 06		10 = 10 meters	
Type (c)		25 = 25 meters	
1 = (F7) ePM1 50% (2 pcs)		Internal silencer	RDTZ-19-bb
1 - (17) er MI 30% (2 pcs)		internal Silencer	KD12-19-00
Manometer, fan pressure	RDTZ-56-1	Size (bb)	
		03, 04, 06	
Manometer, U-pipe for filters	RDTZ-07-1		
		Flexible connection	RDTZ-55-bb-c
Combination cover	RDTZ-59-bb		
		Size (bb)	
Size (bb)		03 = Size 03, circular	
03 = Size 03		04 = Size 04, circular	
04 = Size 04		06 = Size 06, rectangular	
Silencer, Rectangular	RDTZ-15-bb-c	Type (c)	
600x300 mm, L = 650 mm	KD12-13-00-C	0 = For sizes 03 and 04	
0000000 111111, E = 030 111111		1 = PG, size 06	
Size (bb)		1 = PB, SIZE UU	
06 = Size 06		Ton cover	DDT7 20 bb 1
00 = 2126 00		Top cover	RDTZ-20-bb-1
Type (c)		Bottom cover	RDTZ-21-bb-1
1 = PG			
		Size (bb)	
Silencer, Circular	RDTZ-16-bb-ccc	03, 04, 06	
0' 413			
Size (bb)		Converter from rectangular to circular	RDTZ-24-bb-c
03 = Size 03, Ø250 mm		0' 412	
04 = Size 04, Ø315 mm		Size (bb)	
Law eth Cara		06 = size 06 (from 600 x 300 mm to Ø400 mm)	
Length (ccc)		T (-)	
060 = 600 mm		Type (c)	
090 = 900 mm		1 = PG	
Shut off damper with actuator	RDTZ-87-bb-c-d	Converter from PG to flange	RDTZ-25-bb-c
Size (bb)		Size (bb)	
03 = Size 03, Ø250 mm		06 = Size 06	
04 = Size 04, Ø315 mm			
06 = Size 06, 600 x 300 mm		Type (c)	
		1 = PG/flange	
Type (c)		- · · · <b>J</b>	
0 = For sizes 03 and 04			
1 = PG, unisolated blades, size 06			
3 = PG, isolated blades, size 06			
, <del> ,</del>			
Actuator (d)			
2 = On-off, spring return			





FläktGroup is the European market leader for smart and energy efficient Indoor Air and Critical Air solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than a century of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side, ready to deliver Excellence in Solutions.

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