

KDRE/KDRD



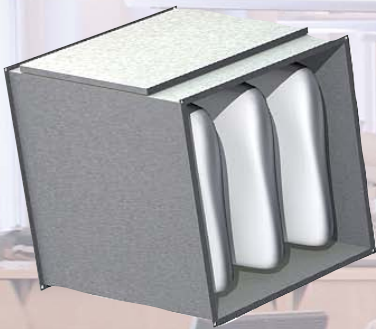
## **KDRE/KDRD**

**Supply/Exhaust fan for several purposes**  
**740 - 2600 l/s (2660 - 9360 m<sup>3</sup>/h) at 100 Pa**

# KDRE/KDRD



Fan KRDE/KDRD



Filter box FFS



Flexible connection DSK



## Electronic accessories, KDRE



**REE**  
Thyristor speed controller- Combined flush or surface mounting, 1 phase



**REU**  
Manual five-step transformer, 1 phase, 2 speed



**REV**  
Isolator mounted on a bracket, leads connected 1 max 16 A.



**RTRE**  
Manual five-step transformer, 1 phase, with motor protection.



**S-ET**  
Thermal motor protection relay, 1 phase.



**REV**  
Isolator mounted on a bracket, leads connected 1 max 16 A.



**RTRD**  
Manual five-step transformer (with motor protection).



**RTRDU**  
Manual five-step transformer (with motor protection).



**STDT**  
Thermal contact motor protection.

## Electronic accessories, KDRD

- Extensive range of accessories
- Speed-controllable
- Integral thermal contacts
- Can be installed in any positions
- Maintenance-free and reliable

KDRE/KDRD fans have an external rotor motor with a mixed flow type impeller, i.e. the fan impeller is a combination between a radial and an axial impeller and provides the best from both impellers.

The result is a fan that gives considerably more airflow than radial fans and still provides relatively high static pressure with a high level of efficiency and a compact design.

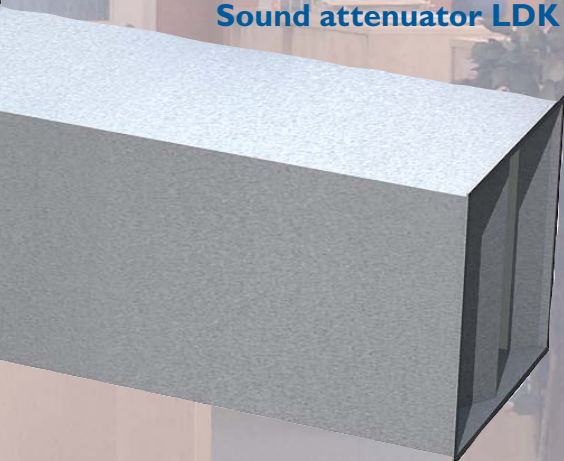
The casing is manufactured from galvanised sheet steel and

provided with flanges for a fast and effective installation.


To protect the motor from overheating, the KDRE/KDRD fans have integral thermal contacts with leads for connection to a motor protection device.

The fans can be installed in any position and are easy to connect using the DS flexible connections.

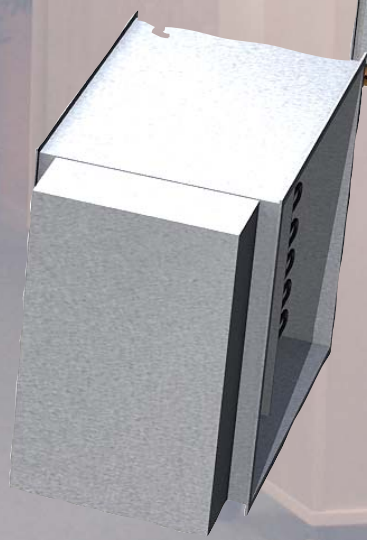
KDRE/KDRD can be supplemented with a filter, silencer and heating battery and establish a simple air handling unit.



Sound attenuator LDK

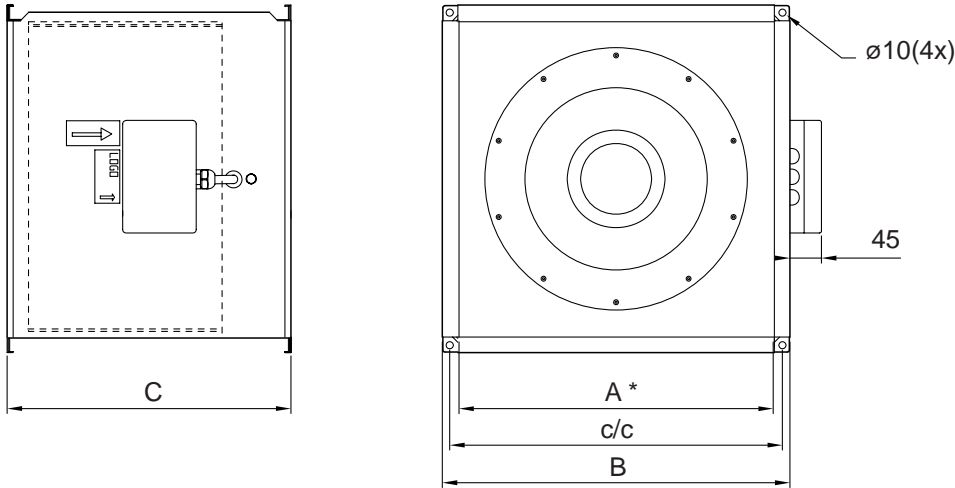


Electrical heater RBK



Water heater VBK

## KDRE/KDRD



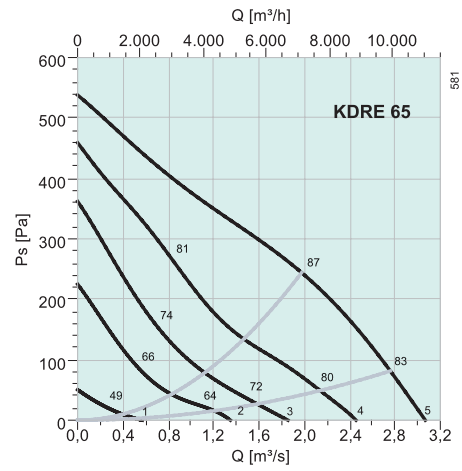
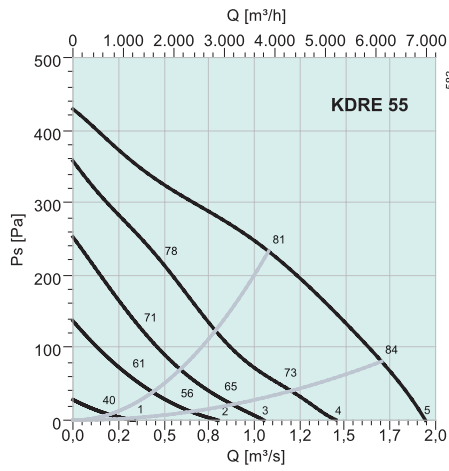
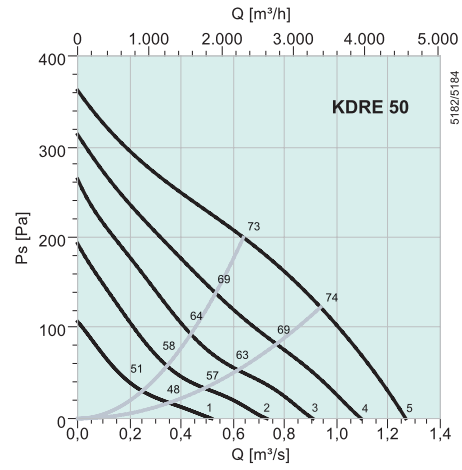
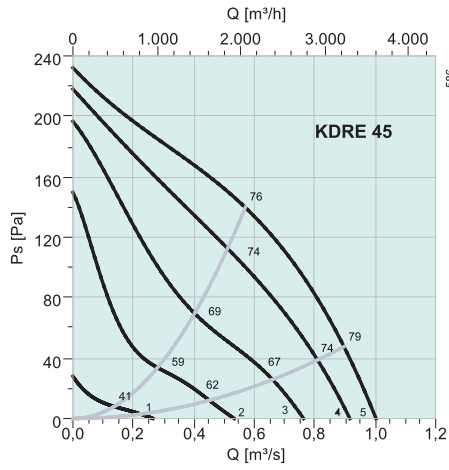
\* Inner dimension

	A	c/c	B	C
<b>KDRE 45</b>	447	470	492	400
<b>KDRE 50</b>	502	520	547	450
<b>KDRE 55</b>	550	573	595	485
<b>KDRE 65</b>	661	680	707	510
<b>KDRD 50</b>	502	520	547	450
<b>KDRD 55</b>	550	573	595	485
<b>KDRD 65</b>	661	680	707	510
<b>KDRD 70</b>	696	720	740	530

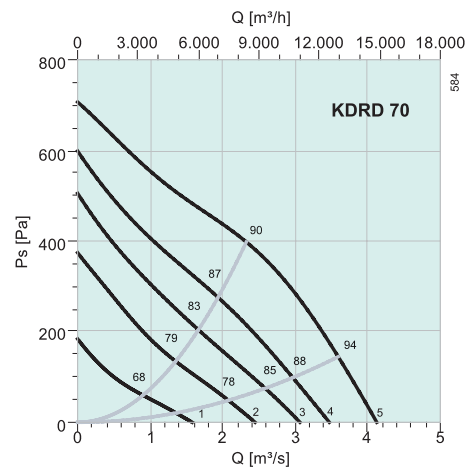
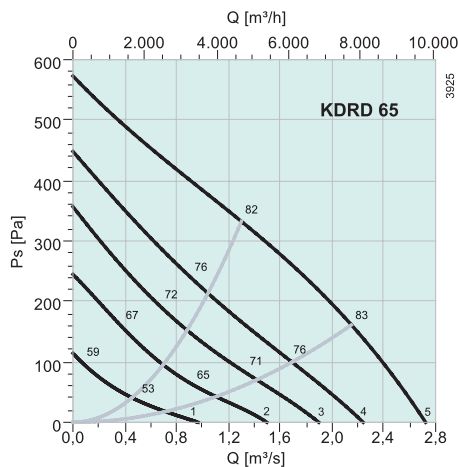
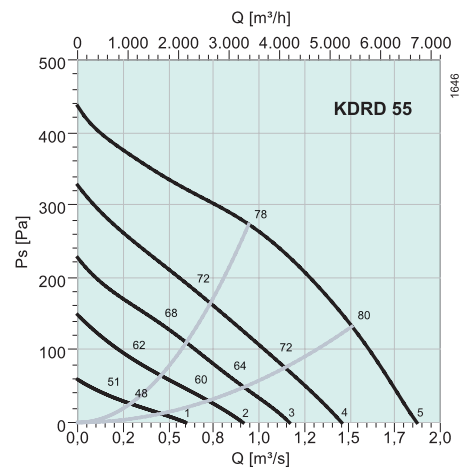
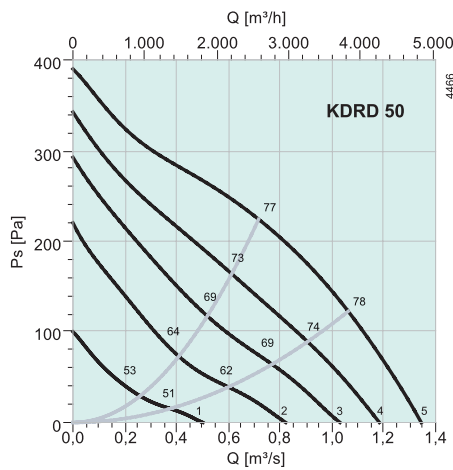
		KDRE 45	KDRE 50	KDRE 55	KDRE 65	KDRD 50	KDRD55	KDRD 65	KDRD 70
<b>Voltage</b>	V	230	230	230	230	400	400	400	400
<b>Frequency</b>	Hz	50	50	50	50	50	50	50	50
<b>Phase</b>	~	1	1	1	1	3	3	3	3
<b>Power</b>	W	325	442	861	1501	462	789	1250	2489
<b>Current</b>	A	1.55	1.94	4.1	6.61	0.962	1.52	2.23	4.67
<b>Max. airflow</b>	m <sup>3</sup> /h	3611	4558	6997	11045	4338	6732	9803	14846
<b>R.p.m.</b>		1387	1297	1280	1315	1397	1315	1341	1383
<b>Max. temperature of transported air</b>	°C	70	70	45	70	70	49.1	70	70
<b>Max. temperature of transported air when speed-controlled</b>	°C	70	70	45	70	70	40.1	55.5	68.6
<b>Sound pressure level at 3 m</b>	dB(A)	45.4	52.3	51	61	54.4	55.4	53.1	61.8
<b>Weight</b>	kg	26	41	42	54	30	40	53	62
<b>Insulation class, motor</b>		F	F	F	F	F	F	F	F
<b>Insulation class, motor</b>	IP	54	54	54	54	54	54	54	54
<b>Capacitor</b>	µF	8	10	16	30	-	-	-	-



## KDRE

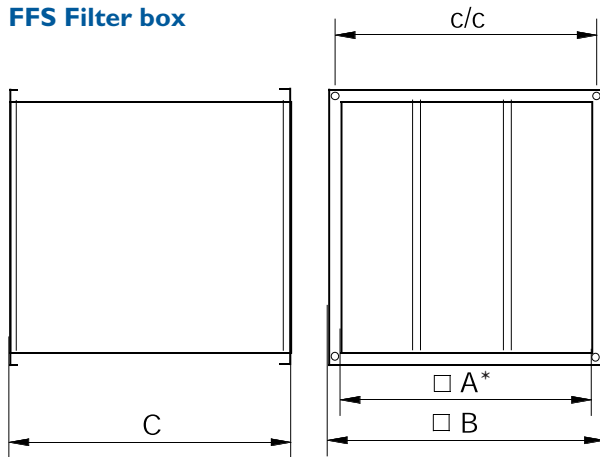


## KDRD



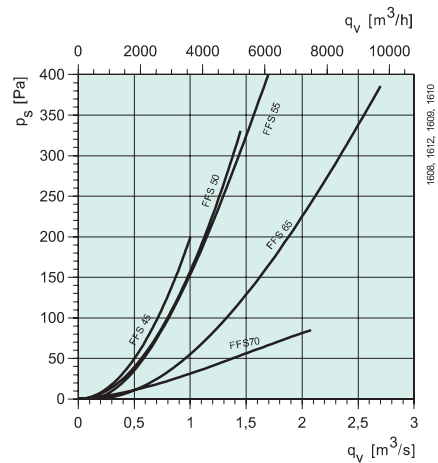
## Accessories KDRE/KDRD

### FFS Filter box

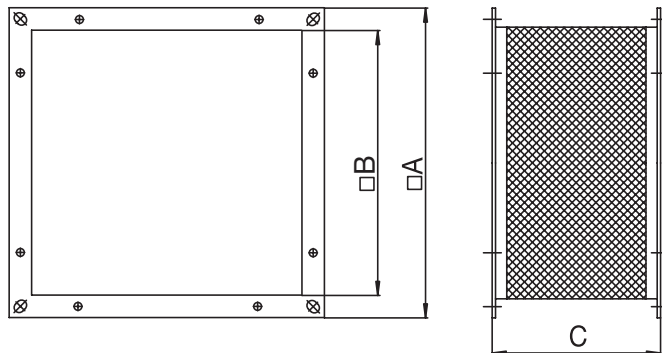


\* Inner dimension

	□A	c/c	□B	C
FFS 45	447	470	492	502
FFS 50	502	520	547	532
FFS 55	550	573	595	562
FFS 65	661	680	707	642
FFS 70	697	720	742	642

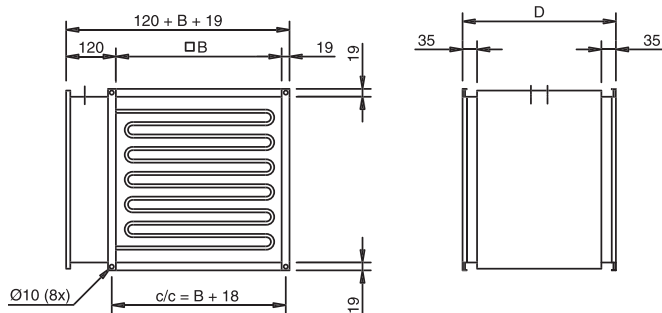


### DSK Flexible connection



	□A	□B	□C
DSK 45	492	447	120
DSK 50	547	502	120
DSK 55	595	550	120
DSK 65	707	661	120
DSK 70	742	696	120

### RBK Electrical heater



	B	D
RBK 45	450	370
RBK 50	500	370
RBK 55	550	370
RBK 65	660	370

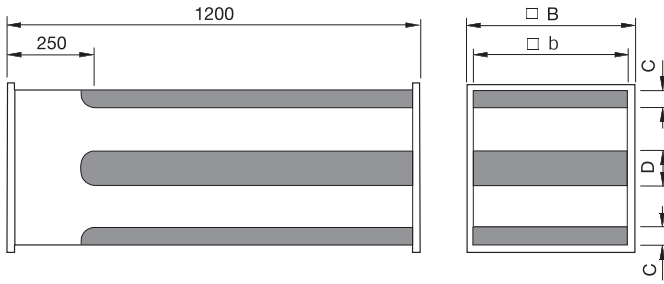
RBK	45/17	50/21	55/33	66/39
Power (kW)	17	21	33	39
Voltage (V)	400V 3~	400V 3~	400V 3~	400V 3~
Current (A)	24,5	30	48	56
Min. air flow (m³/h)	570	910	890	1650
Controlled by	TTC	TTC + TT-S1	TTC+M slave	TTC+M slave
Wiring diag.	RBK-1	RBK-2	RBK-3	RBK-4

**Duct heater** for square ducts. Casing of alu-zink coated sheet metal with heating elements in stainless steel. The heater has built-in over-heating protection with manual reset.

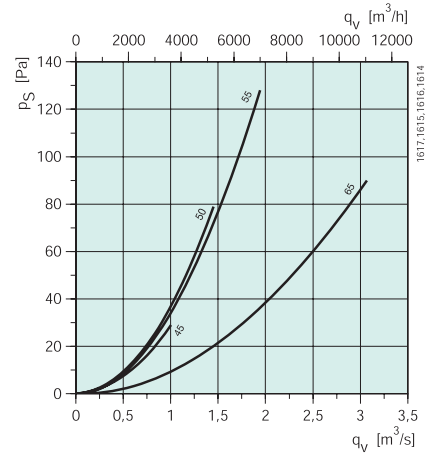
Heat control by means of a controller TTC together with a TT-Slave (TT-S1) or TTC together with a TT-M Slave. Min.airflow is based on a min.air velocity of 1.5 m/s. The duct heater is dimensioned for a maximum outgoing temp. of 40°C.

## LDK Sound attenuator

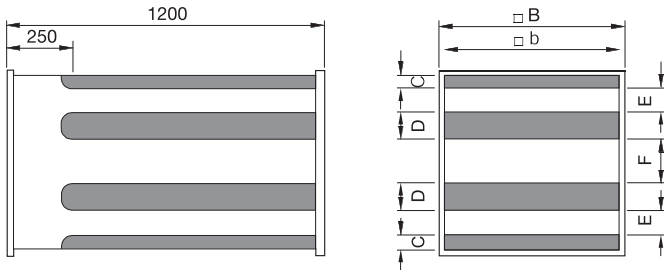
### LDK 45-55



	$\square b$	$\square B$	C	D
<b>LDK 45</b>	450	490	50	100
<b>LDK 50</b>	502	546	50	150
<b>LDK 55</b>	661	594	50	200



### LDK 65-70

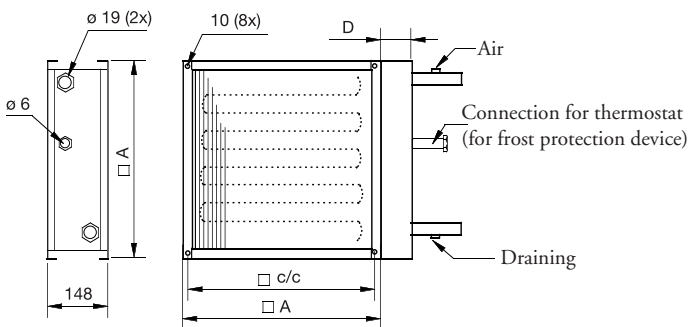


	$\square b$	$\square B$	C	D	E	F
<b>LDK 65</b>	661	703	50	100	93	175
<b>LDK 70</b>	696	740	50	100	110	176

### Noise suppression dB frequency band Hz

LDK	125	250	500	1k	2k	4k	8k
<b>45</b>	5	8	13	12	8	7	7
<b>50</b>	7	8	13	12	9	8	7
<b>55</b>	9	9	13	12	10	9	8
<b>65</b>	6	7	14	13	9	8	7
<b>70</b>	5	7	19	24	23	15	10

## VBK Water heater



	$\square A$	c/c	$\square D$	no. of rows
<b>VBK 45</b>	492	470	78	2
<b>VBK 50</b>	547	520	78	2
<b>VBK 55</b>	595	573	98	2
<b>VBK 65</b>	707	680	98	2

**Water heating battery for square ducts** The casing is made of galvanised steel, the heat transmission elements are copper tubes with aluminium fins, and with copper pipes for connecting water inlet and outlet.

If the VBK is to be used in very cold conditions it may be necessary to install a frost protection device. The VBK is designed for horizontal mounting with the water connection to the right. For best results the air and water must be going through the battery in opposite directions.

The water must be flowing upwards in order to facilitate airing of the battery. Software for determining the required dimensions for the desired output is available.



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