DVCompact Specification Data

Air volume 800 - 40 000 m^3/h

systemair

The Straight Way

Systemair was founded in 1974 with a breakthrough product idea, the circular duct fan, which meant that the installation was much easier. Our motto became “The straight path,” which has evolved from a product idea into a business philosophy.

Contents

Since then, our range has grown considerably to cover a wide product range of fans, ventilation units, products for air distribution, air curtains and heating products. As of early 2012, we have cooling in our product range. Our business idea is that with simplicity and reliability as core values, develop, manufacture and market ventilation products of high quality.

With the business idea as a base and our customers in focus, we will be perceived as a company to trust with a focus on delivery security, availability and quality. Our focus is to develop innovative and energy efficient products - that are easy to select, install and maintain. With over 3000 employees in 42 countries, we are always close to our customers.

DVCompact

A unique contribution to reducing energy consumption in buildings.

Production
DVCompact units are produced in 12 sizes with the airflow capacity up to 40 000 m^3/h

Selection software
DVCompact units are selected in the intellectual software SystemairCAD

Easy to maintain
Internal components can simply be removed for inspection and maintenance.

Easy transportation
DVCompact units are shipped in 3 sections. Units up to 18 000 m^3/h can easily be transported through standard doorways.

Plug-n-play
DVCompact units with built-in control system are delivered pre-configured, tested at the factory and ready to use.

Systemair Building Access
The status of the unit can be checked via phones with Android operating system.

40% of present day energy use is in buildings. With the current requirements for reduced energy consumption and lower CO_2 emissions, efficient ventilation installations are an important factor. A ventilation unit with optimal heat recovery and low SFP is the most effective contribution to conserving energy. Systemair is a Swedish company with 19 production facilities around the world and our guiding lights are energy efficiency, simplicity, quality and cost optimisation. Systemair is a long term partner that places great importance on creating security and simplicity for the customer. DVCompact is an optimised compact unit with a focus on cost efficiency for consultants, installers and users. Systemair has a wide range of air handling units for use in various applications from small office premises to larger industrial applications. Common to all items in the range is that systems and components have been developed to satisfy stringent demands for low energy consumption. Heat exchangers, motors and fan units have all undergone extensive testing, both in the laboratory and out in the field, in order to comply with current and future demands for low energy consumption. All products are also manufactured to comply with environmental requirements. To ensure easy installation, many of these units feature control systems enabled for plug-and-play, i.e. simple start-up.

Emil Darzins Music School

KLP Barcode

Renovation

DVCompact is suitable for the refurbishing of schools, homes and commercial buildings. The three piece design allows easy transportation through standard openings.

The ventilation installation at Emil Darzins Music School were organized in such a way as to allow the school to start the new school year last fall, as well as to ensure smooth learning process every day.

New build

DVCompact has a low height and a short length and has many advantages when project planning new buildings. In major projects it can be an advantage to use decentralised ventilation with, for example, one or two ventilation units per floor. This gives a more flexible solution and reduces the area for fans and shafts.

KLP Barcode is a modern landmark with 16 floors of offices and 10 residential floors.

Easy installation

- Simple to dimension
- Compact design
- Easy to transport
- Quick handling at construction site
- Simple to assemble
- Easy to commission
- Low SFPv

DVCompact belongs to the group of products that fulfills extra requirements for energy conservation and are therefore marked with the Green Ventilation sign.

The range of units is available in twelve sizes for air flows up to 40000 m^3/h and can be supplied with or without control equipment. DVCompact is always supplied in sections (3 sections) to cope with transportation through a 90 door with a unit for air flow of 18000 m^3/h). Compact design and quick assembly of the functional elements with disk-lock system and quick release connections on the electrical side shortens installation time and provides a cost effective installation.

DVCompact is designed with a focus on energy efficiency and has a low SFPv while being designed to take up as little space as possible.

Full range of mixing sections, coolers, roof hoods, silencers and other accessories provide a simple selection and purchase process.

DVCompact's functional elements are no larger than can be transported on a pallet truck, and can pass through most door openings.

DVCompact has a neat design, called disk-lock for connecting the functional elements

When the functional elements have been assembled - all electricity and controls are easily connected with quick release connections.

Control systems

General
DVCompact is supplied with integrated automatic control device and is controlled by Corrigo E56 regulator, which has a lot of functions and is specially developed for ventilation control.

It is supplied as standard with a control panel where all the settings are made. The regulator is preconfigured and the unit test run at the factory. This makes for problem free and quick commissioning of the unit.

Standard Delivery description
DVCompact is supplied complete with all necessary control functions for as energy efficient and economic operation as possible.

Examples of control functions:
- Stepless speed control of the rotor
- Directly driven frequency controlled plug fans
- All necessary temperature sensors preinstalled
- Control systems for heating coils, cooling coils and DX cooling
- Circulation pump control
- Quick release connections between unit sections.
- Adapted alternatives

The unit is supplied preconfigured from the factory but there are still many different settings and functions that can be selected. These settings can be made directly in the control panel or with the help of E-Tool, a Windows based computer program. Simply connect the unit to a computer to get all the values and settings up on the screen. Make your own settings and then transfer them from the computer to the regulator or vice versa.

Setting options:
- CO2 control
- Night cooling
- Fire function
- External start/stop
- Configuring in-/outputs
- Extra temperature sensor
- Alarm settings

This is a selection of the user defined configurations that are possible. See also www.systemair.com for description of several functions.

Communication options
DVCompact E56 is supplied as standard with RS-485 serial port to modbus or EXOline.

A communication port to LON and network port to TCP/IP are available as options. OPC can be used with other types of central unit.

There are drivers suitable for different units.
A new feature is that it is now possible to integrate a web server in the regulator for direct access over the internet.

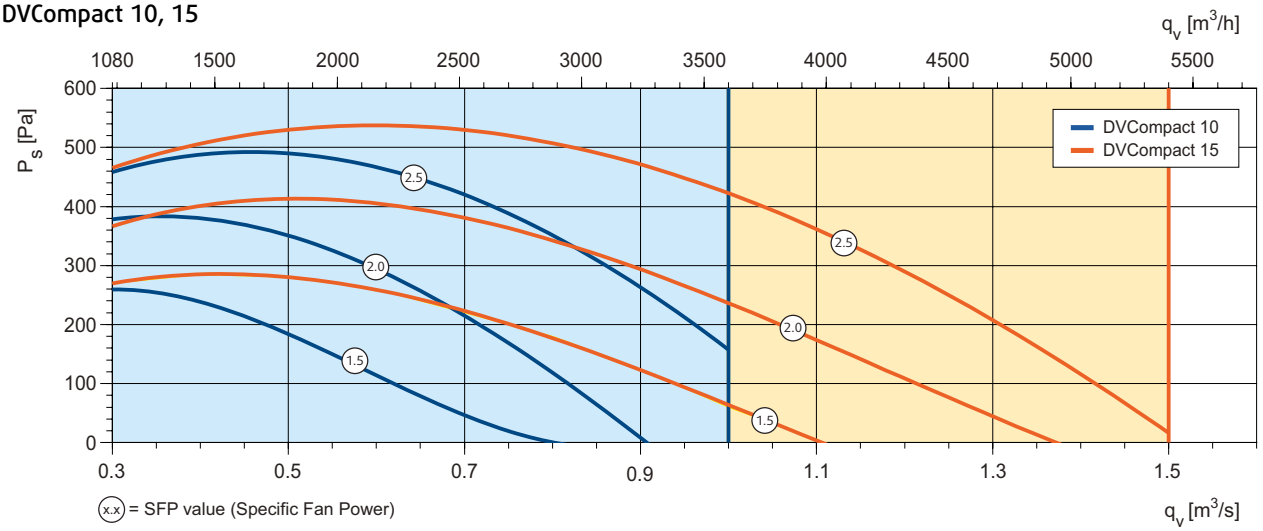
Documentation
DVCompact with control systems is supplied with all available documentation.

- Flow diagram and function description at www.systemair.com
- Wiring diagram
- Operation and maintenance
- User instructions for control systems
- Configuration files for E-tool

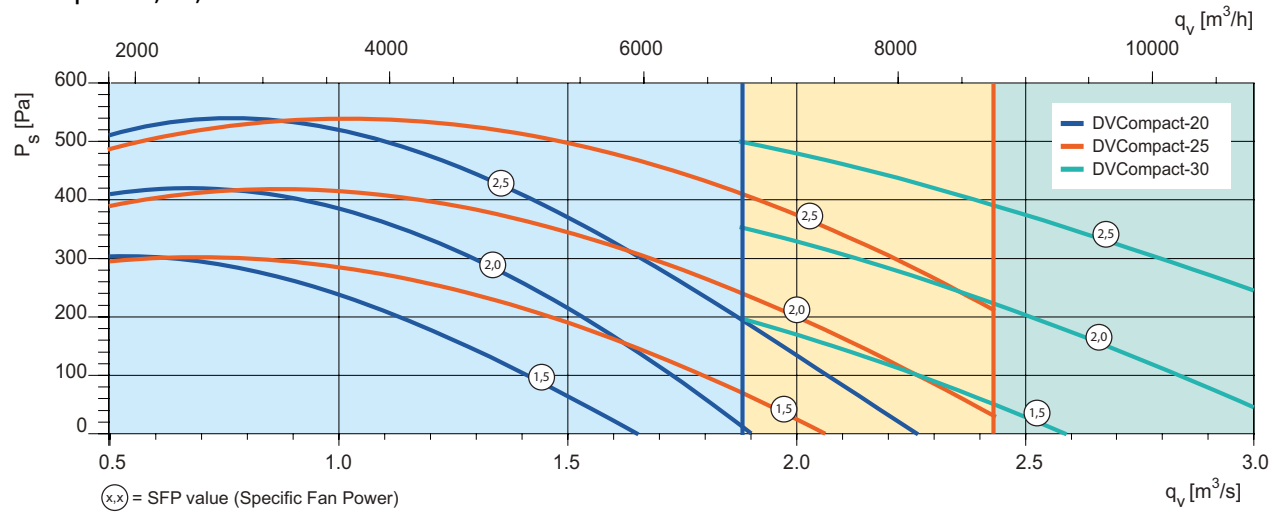
Working range DVCompact

The SFP graphs are based on DVCompact, equipped with a high efficiency fan and motor, a rotating heat exchanger, two sections of heating coil, an F7 supply air filter, an F5 extract air filter, and supply air and extract air dampers.

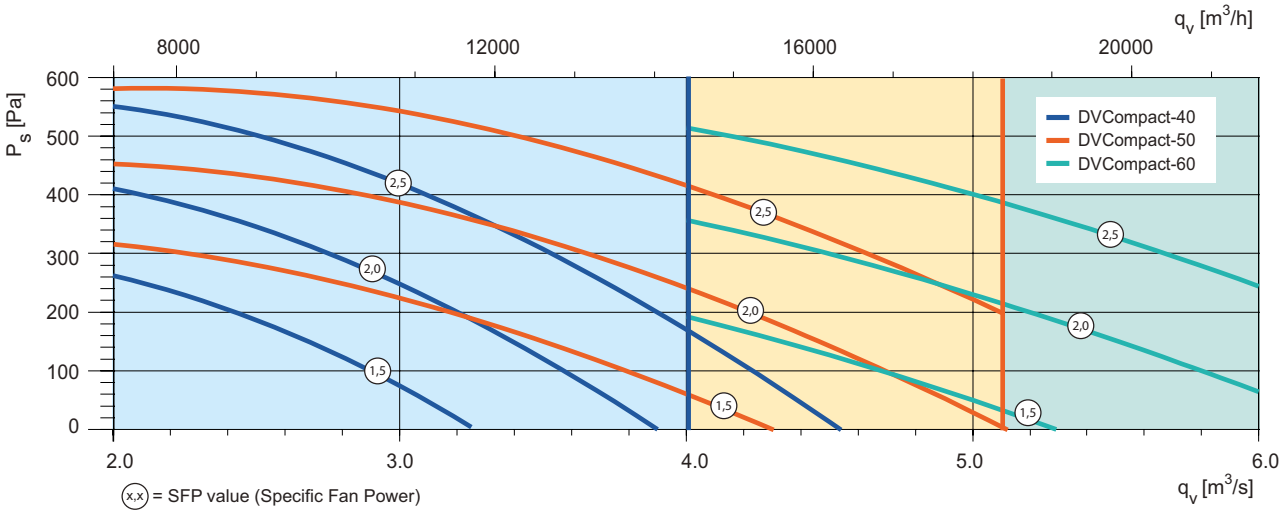
DVCompact 10, 15



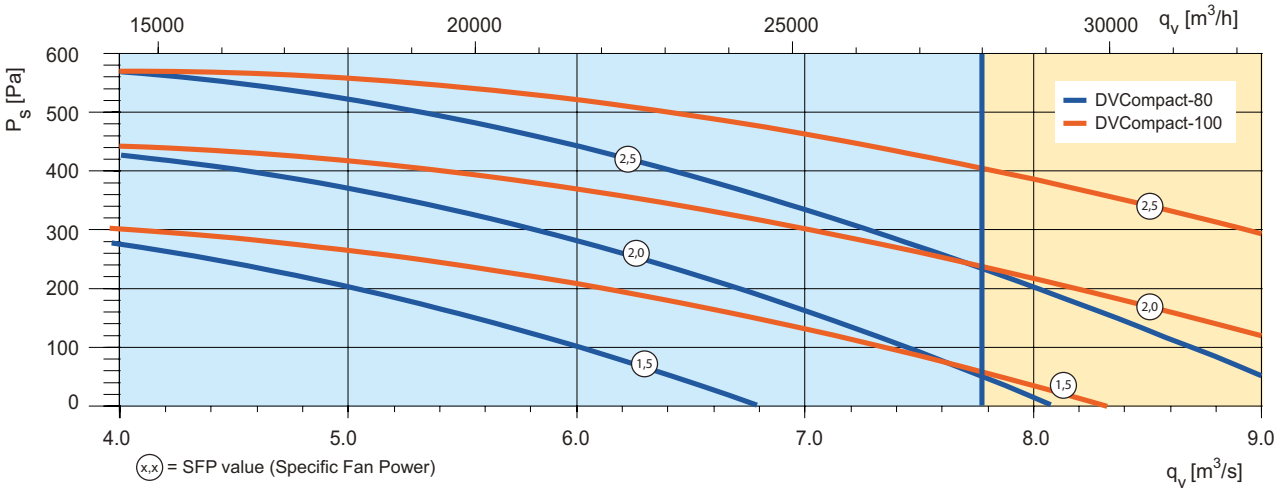
DVCompact 20, 25, 30



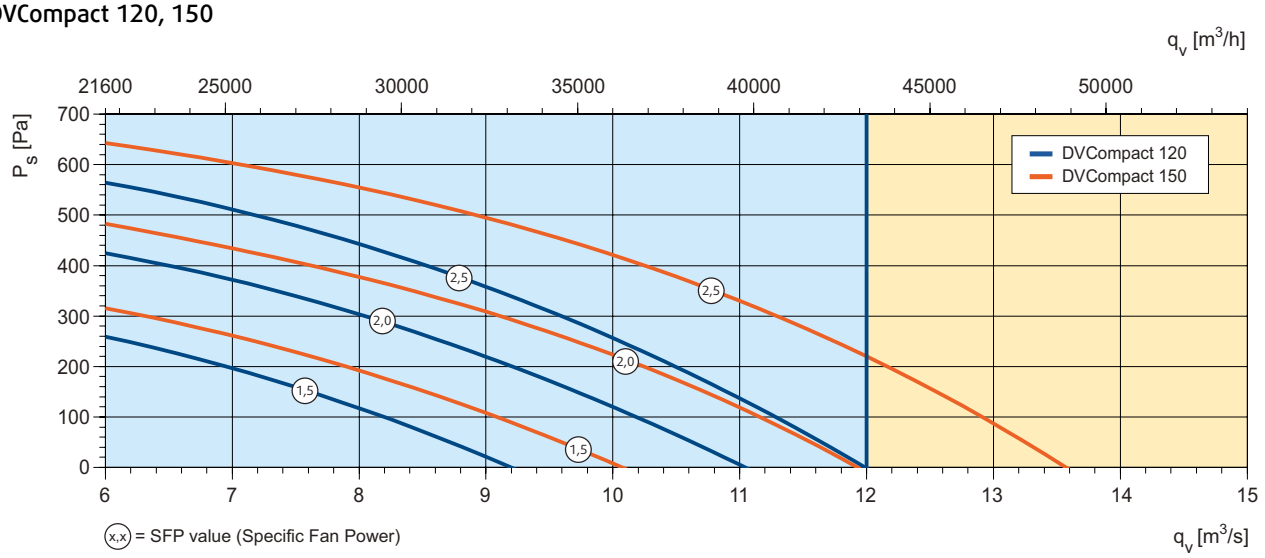
DVCompact 40, 50, 60



DVCompact 80, 100



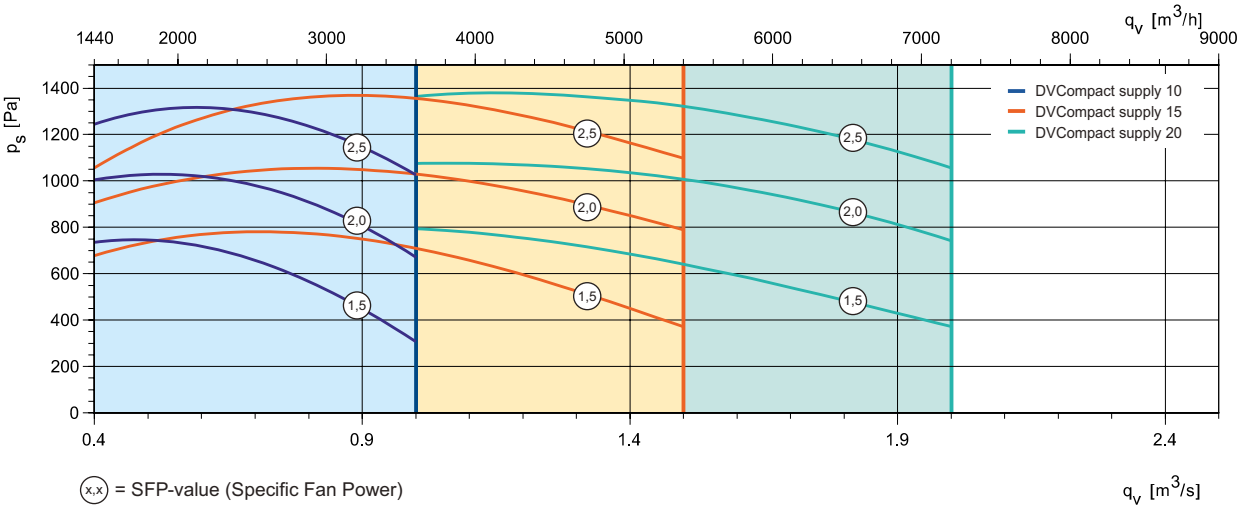
DVCompact 120, 150



Working range DVCompact supply

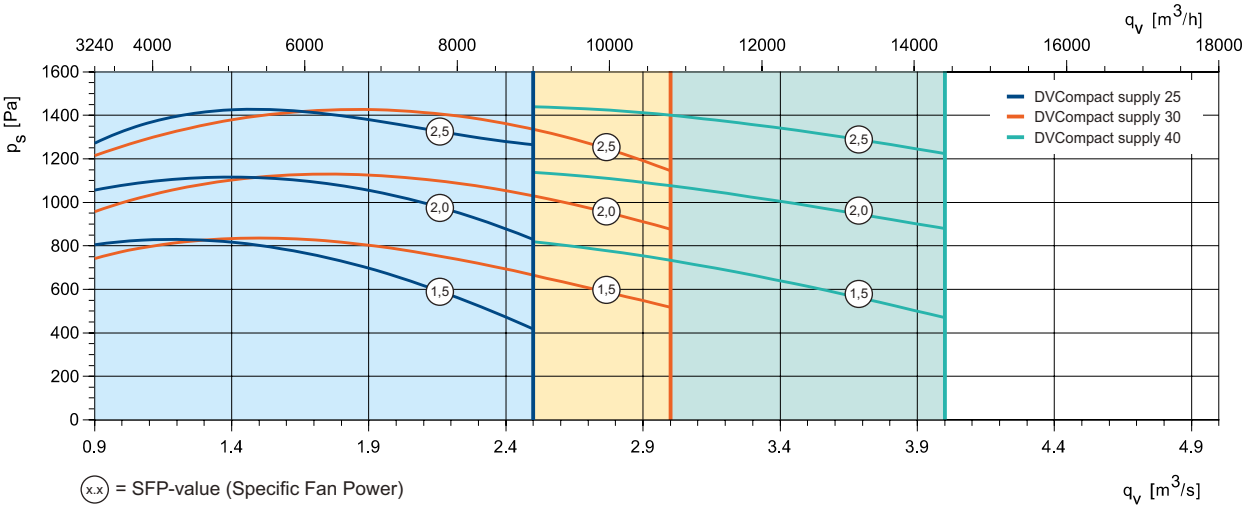
The SFP graphs are based on DVCompact, equipped with a plug fan and AC motor, a water heating coil, a M5 air filter, and air damper.

DVCompact supply 10, 15, 20



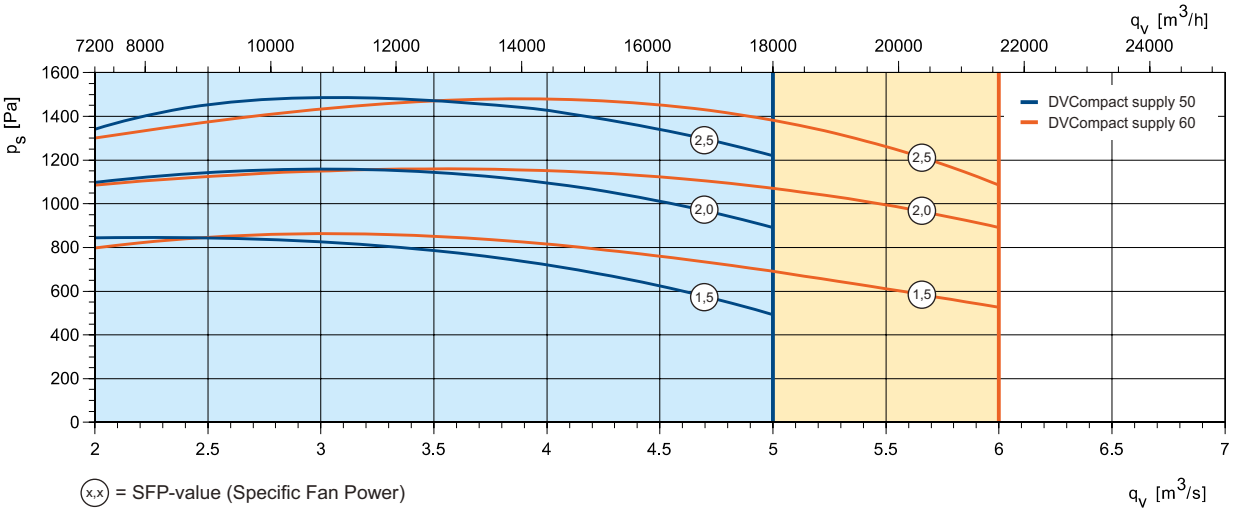
(x,x) = SFP-value (Specific Fan Power)

DVCompact supply 25, 30, 40

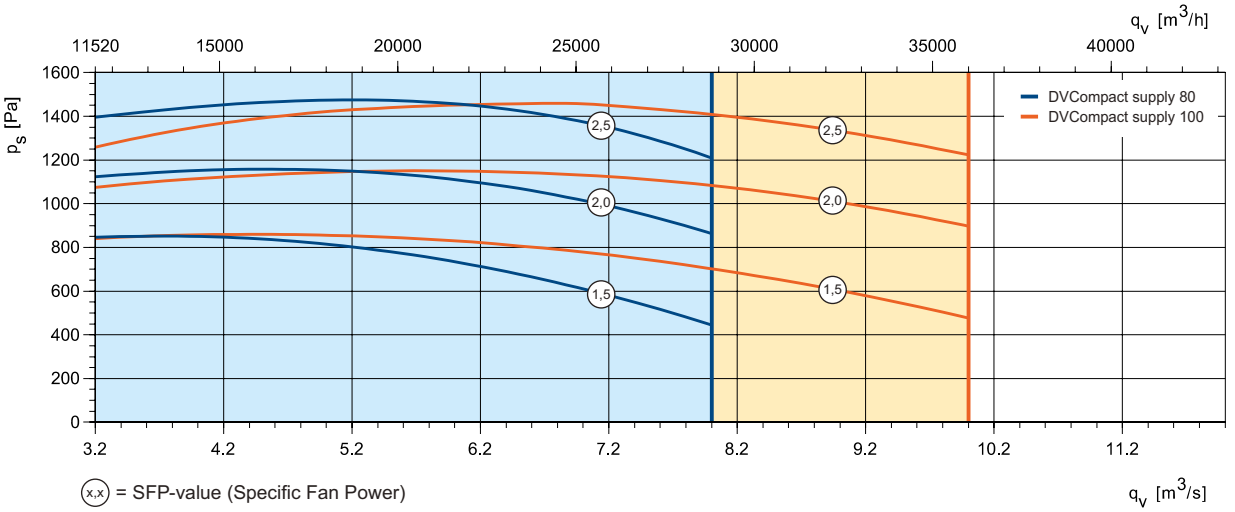


(x.x) = SFP-value (Specific Fan Power)

DVCompact supply 50, 60



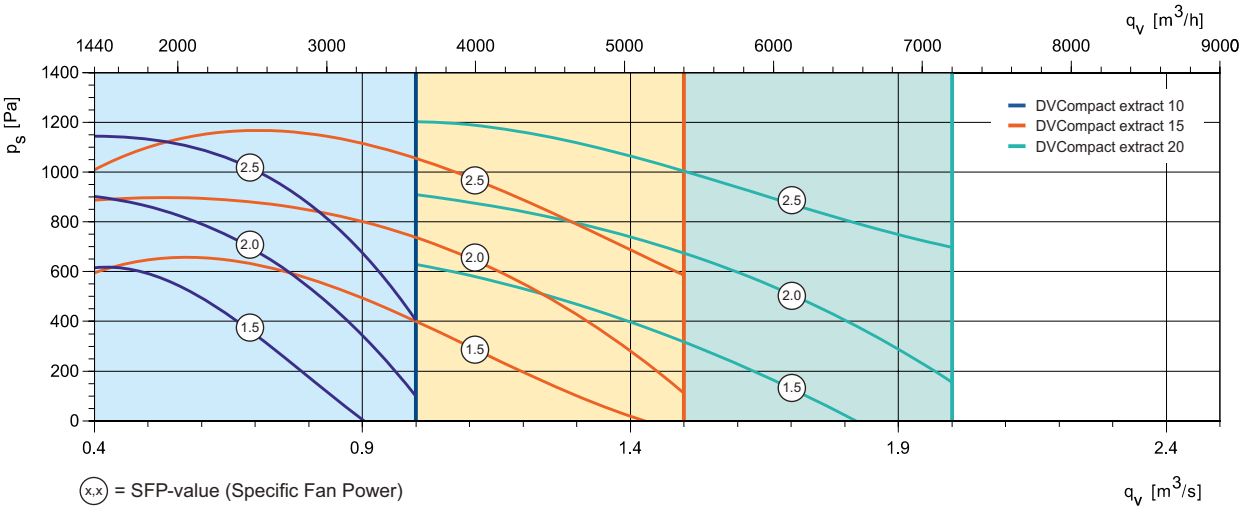
DVCompact supply 80, 100



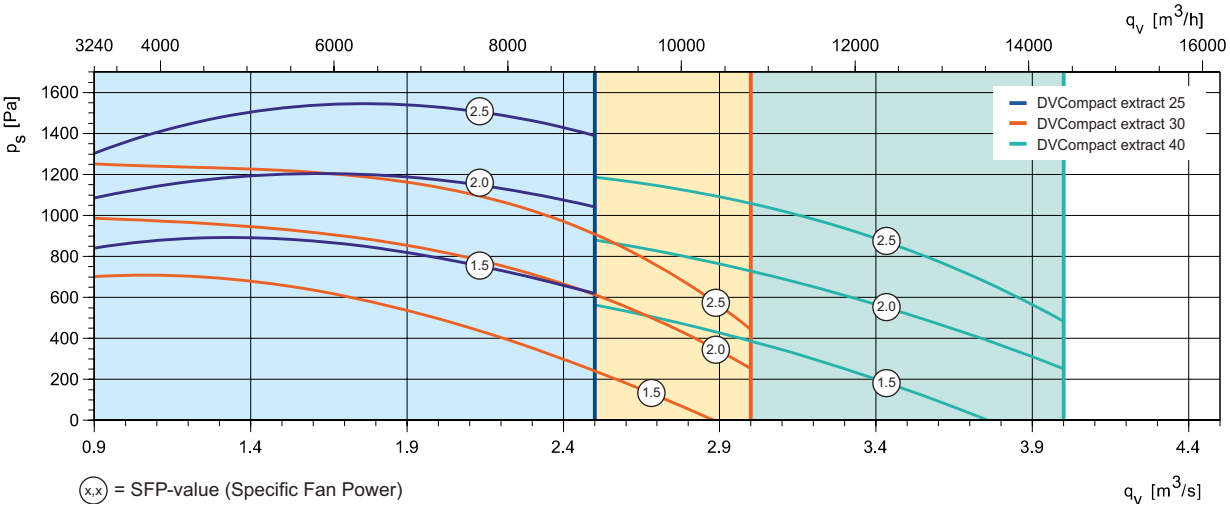
Working range DVCompact extract

The SFP graphs are based on DVCompact, equipped with a plug fan and AC motor, G4 panel air filter, and air damper.

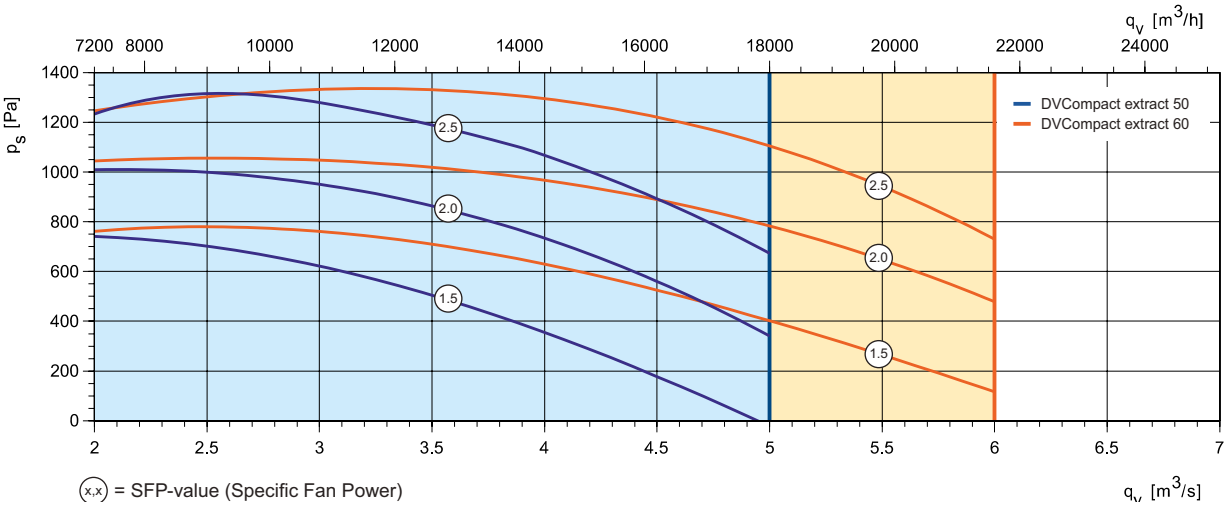
DVCompact extract 10, 15, 20



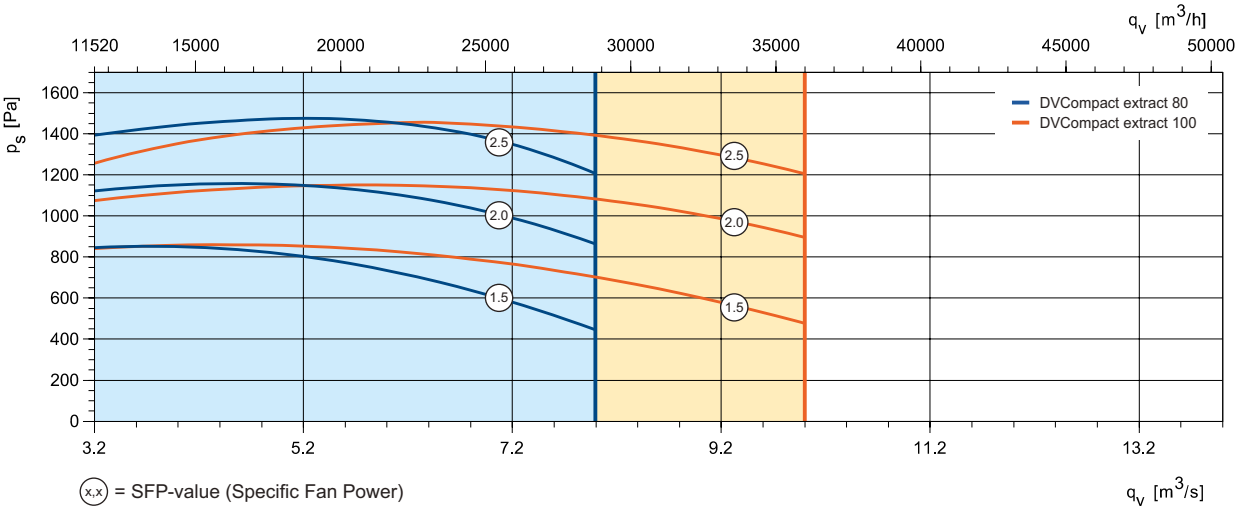
DVCompact extract 25, 30, 40



DVCompact extract 50, 60



DVCompact extract 80, 100

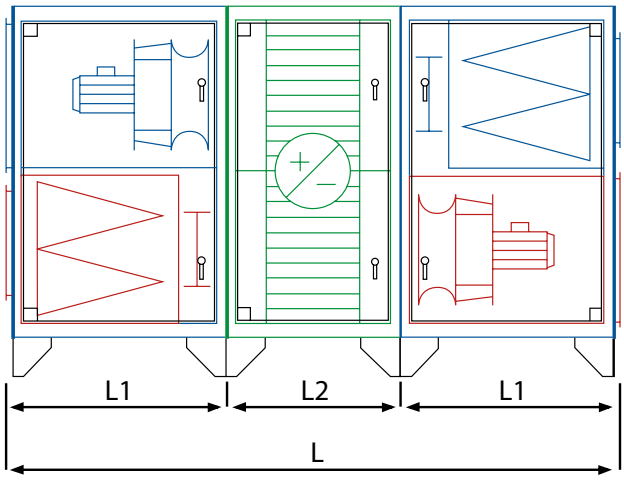


Quick selector, rotating heat exchanger

The following table makes it easy to choose DVCompact. For complete project planning use SystemairCAD or contact one of our sales offices.

Size	Motor (kW)	Air volume (m³/h) *	W x H	L	L1	L2
10	1,1	2400	970	2310	820	670
15	1,5	3600	1120	2310	820	670
20	2,2	5400	1270	2310	820	670
25	2,2	6800	1420	2310	820	670
25	3,0	6800	1420	2310	820	670
30	3,0	8500	1570	2310	820	670
30	4,0	8500	1570	2310	820	670
40	4,0	10800	1720	2610	970	670
40	5,5	10800	1720	2610	970	670
50	5,5	14600	2020	2760	970	820
50	7,5	14600	2020	2760	970	820
60	7,5	18000	2170	3060	1120	820
80	7,5	22000	2470	3510	1270	970
80	11,0	22000	2470	3510	1270	970
100	11,0	28000	2770	3660	1270	1120
120	11 & 15	30600	2920	3360	1120	1120
150	11 & 15	34800	3070	3360	1120	1120

* SFP < 2,0 = 250 Pa

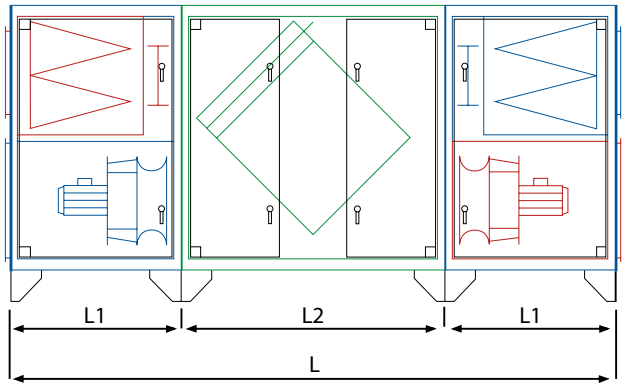


Quick selector, cross flow heat exchanger

The following table makes it easy to choose DVCompact. For complete project planning use SystemairCAD or contact one of our sales offices.

Size	Motor (kW)	Air volume (m³/h) *	W x H	L	L1	L2
10	1,1	2400	970	2760	820	1120
15	1,5	3600	1120	2910	820	1270
20	2,2	5400	1270	2910	820	1270
25	2,2	6800	1420	3210	820	1570
25	3,0	6800	1420	3210	820	1570
30	3,0	8500	1570	3210	820	1570
30	4,0	8500	1570	3210	820	1570
40	4,0	10800	1720	3660	970	1720
40	5,5	10800	1720	3660	970	1720
50	5,5	14600	2020	3660	970	1720
50	7,5	14600	2020	3660	970	1720
60	7,5	18000	2170	4260	1120	2020
80	7,5	22000	2470	4560	1270	2020
80	11,0	22000	2470	4560	1270	2020
100	11,0	28000	2770	4860	1270	2320

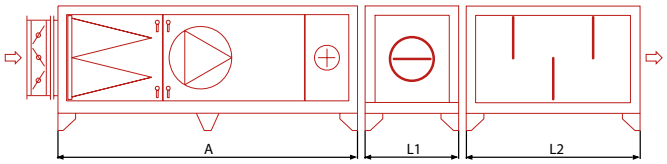
* SFP < 2,0 = 250 Pa



The following table makes it easy to choose DVCompact. For complete project planning use SystemairCAD or contact one of our sales offices.

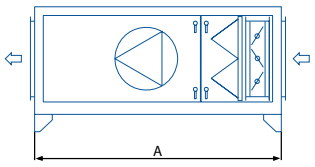
Quick selector, supply unit

Size	Motor (kW)	Air volume (m^3/h)	A	W	H	L1	L2
10	1.1	3600	1720	970	520	520	970
10	2.2	3600	1720	970	520	520	970
15	1.5	5400	1720	1120	595	520	970
15	3.0	5400	1720	1120	595	520	970
20	2.2	7200	1720	1270	670	520	970
20	4.0	7200	1720	1270	670	520	970
25	3.0	9000	1870	1420	745	520	970
25	5.5	9000	1870	1420	745	520	970
30	3.0	10800	1870	1570	820	520	970
30	5.5	10800	1870	1570	820	520	970
40	5.5	14400	2020	1720	895	520	970
40	7.5	14400	2020	1720	895	520	970
50	5.5	18000	2170	2020	1045	520	970
50	11.0	18000	2170	2020	1045	520	970
60	7.5	21600	2170	2170	1120	520	970
60	11.0	21600	2170	2170	1120	520	970
80	11.0	28800	2320	2170	1270	520	970
80	18.5	28800	2320	2170	1270	520	970
100	15.0	36000	2690	2370	1420	520	970
100	22.0	36000	2690	2370	1420	520	970



Quick selector, extract unit

Size	Motor (kW)	Air volume (m^3/h)	A	W	H
10	1.1	3600	1120	970	520
10	2.2	3600	1120	970	520
15	1.5	5400	1120	1120	595
15	3.0	5400	1120	1120	595
20	2.2	7200	1120	1270	670
20	4.0	7200	1120	1270	670
25	3.0	9000	1270	1420	745
25	5.5	9000	1270	1420	745
30	3.0	10800	1270	1570	820
30	5.5	10800	1270	1570	820
40	5.5	14400	1420	1720	895
40	7.5	14400	1420	1720	895
50	5.5	18000	1570	2020	1045
50	11.0	18000	1570	2020	1045
60	7.5	21600	1570	2170	1120
60	11.0	21600	1570	2170	1120
80	11.0	28800	1720	2170	1270
80	18.5	28800	1720	2170	1270
100	15.0	36000	2020	2370	1420
100	22.0	36000	2020	2370	1420



Accessories, heat recovery units

Accessories	DVCompact 10	DVCompact 15	DVCompact 20	DVCompact 25	DVCompact 30
Repeater, 230V main supply *	E0-R230K	E0-R230K	E0-R230K	E0-R230K	E0-R230K
Repeater, 24V main supply *	E0-R	E0-R	E0-R	E0-R	E0-R
E-Tool cable	ETC	ETC	ETC	ETC	ETC
Shut-off damper, inlet	DVC-10	DVC-15	DVC-20	DVC-25	DVC-30
Damper actuator, inlet	LF24A	LF24A	LF24A	LF24A	SF24A
Shut-off damper, outlet	DVC-10	DVC-15	DVC-20	DVC-25	DVC-30
Damper actuator, outlet	LM24A	LM24A	LM24A	LM24A	NM24A
Water heater HWL, low power.	DVH-10-1R-3NC	DVH-15-1R-4NC	DVH-20-1R-3NC	DVH-25-1R-4NC	DVH-30-1R-6NC
Water heater HWM, mid power.	DVH-10-2R-4NC	DVH-15-2R-6NC	DVH-20-2R-6NC	DVH-25-2R-8NC	DVH-30-2R-8NC
Water heater HWH, high power.	DVH-10-3R-5NC	DVH-15-3R-9NC	DVH-20-3R-15NC	DVH-25-3R-18NC	DVH-30-3R-39NC
Valve actuator	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**
Valve, 2-way. Fits to HWL/HWH coils	R20...**	R20...**	R20...**	R20...**	R20...**
Valve, 3-way. Fits to HWL/HWH coils	R30...**	R30...**	R30...**	R30...**	R30...**
Water cooling battery, low power	DVK-10-4R-9NC	DVK-15-4R-12NC	DVK-20-4R-8NC	DVK-25-4R-12NC	DVK-30-4R-13NC
Water cooling battery, mid power	DVK-10-5R-11NC	DVK-15-5R-15NC	DVK-20-4R-13NC	DVK-25-4R-24NC	DVK-30-4R-26NC
Water cooling battery, high power	–	–	DVK-20-5R-10NC	DVK-25-5R-15NC	DVK-30-5R-16NC
Cooling battery, DX coil	DVK***	DVK***	DVK***	DVK***	DVK***
Built-in cooling machine, power version 1	-	-	DX-20N-2-400V	DX-25N-1-400V	DX-30N-1-400V
Built-in cooling machine, power version 2	-	-	-	DX-25N-2-400V	DX-30N-2-400V
Mixing section	DV-10C	DV-15C	DV-20C	DV-25C	DV-30C
Inspection section	DVI-10	DVI-15	DVI-20	DVI-25	DVI-30
Volumeter	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa
Camfil manometer 0-500 Pa	T50	T50	T50	T50	T50
Watertlock with a ball					
Inspection lamp AHU					
Frost protection contact Sensor	TG-A1/PT1000	TG-A1/PT1000	TG-A1/PT1000	TG-A1/PT1000	TG-A1/PT1000
Frost protection immersion sensor	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000
Room temperature sensor	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000
Silencer, 900 mm	DVD-10-900	DVD-15-900	DVD-20-900	DVD-25-900	DVD-30-900
Silencer, 1200 mm	DVD-10-1200	DVD-15-1200	DVD-20-1200	DVD-25-1200	DVD-30-1200
Timer	T 120	T 120	T 120	T 120	T 120
Presence detector	IR24-PC	IR24-PC	IR24-PC	IR24-PC	IR24-PC
CO_2 Room sensor (digital 1/0)	CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR
CO_2 Room sensor (analog 0...10V DC)	CO2RT	CO2RT	CO2RT	CO2RT	CO2RT
U-tube manometer, filter guard	MFRO	MFRO	MFRO	MFRO	MFRO
M5 Filter	DVCF10 M5	DVCF15 M5	DVCF20 M5	DVCF25 M5	DVCF30 M5
M6 Filter	DVCF10 M6	DVCF15 M6	DVCF20 M6	DVCF25 M6	DVCF30 M6
F7 Filter	DVCF10 F7	DVCF15 F7	DVCF20 F7	DVCF25 F7	DVCF30 F7
City Flo Filter	DVCF10 City Flo	DVCF15 City Flo	DVCF20 City Flo	DVCF25 City Flo	DVCF30 City Flo
Addition LON					
Add. Webserver/EXOline TCP/IP					
E-Bacnet2-V converter					
Addition VAV					

* Used when the distance between unit and control panel is more than 10 m.
** 2 and 3ways valves are calculated in SystemairCAD for specific conditions.
*** DX coils for the units are calculated in SystemairCAD for specific conditions.

DVCompact 40	DVCompact 50	DVCompact 60	DVCompact 80	DVCompact 100	DVCompact 120	DVCompact 150
E0-R230K	E0-R230K	E0-R230K	E0-R230K	E0-R230K	E0-R230K	E0-R230K
E0-R	E0-R	E0-R	E0-R	E0-R	E0-R	E0-R
ETC	ETC	ETC	ETC	ETC	ETC	ETC
DVC	DVC50	DVC-60	DVC-80	DVC-100	DVC-120	DVC-150
SF24A	SF24A	SF24A	SF24A	SF24A	SF24A	SF24A
DVC	DVC50	DVC-60	DVC-80	DVC-100	DVC-120	DVC-150
NM24A	NM24A	NM24A	SM24A	SM24A	SM24A	SM24A
DVH-40-1R-7NC	DVH-50-1R-8NC	DVH-60-1R-9NC	DVH-80-1R-21NC	DVH-100-1R-24NC	DVH-120-1R-26NC	DVH-150-1R-26NC
DVH-40-2R-10NC	DVH-50-2R-17NC	DVH-60-2R-19NC	DVH-80-2R-21NC	DVH-100-2R-24NC	DVH-120-2R-52NC	DVH-150-2R-52NC
DVH-40-3R-45NC	DVH-50-3R-51NC	DVH-60-3R-57NC	DVH-80-3R-63NC	DVH-100-3R-72NC	DVH-120-3R-78NC	DVH-150-3R-78NC
LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**
R20...**	R20...**	R20...**	R20...**	R20...**	R20...**	R20...**
R30...**	R30...**	R30...**	R30...**	R30...**	R30...**	R30...**
DVK-40-4R-15NC	DVK-50-4R-22NC	DVK-60-4R-25NC	DVK-80-4R-28NC	DVK100-4R-48NC	DVK-120-4R-52NC	DVK-150-4R-52NC
DVK-40-4R-30NC	DVK-50-4R-34NC	DVK-60-4R-76NC	DVK-80-4R-84NC	DVK100-4R-96NC	DVK-120-4R-104NC	DVK-150-4R-104NC
DVK-40-5R-25NC	DVK-50-5R-28NC	DVK-60-5R-48NC	DVK-80-5R-52NC	DVK-100-5R-60NC	DVK-120-5R-65NC	DVK-150-5R-65NC
DVK***	DVK***	DVK***	DVK***	DVK***	DVK***	DVK***
DX-40N-1-400V	DX-50N-1-400V	DX-60N-1-400V	DX-80N-1-400V	-	-	-
DX-40N-2-400V	DX-50N-2-400V	DX-60N-2-400V	-	-	-	-
DV-40C	DV-50C	DV-60C	DV-80C	DV-100C	DV-120C	DV-150C
DVI-40	DVI-50	DVI-60	DVI-80	DVI-100	DVI-120	DVI-150
DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa
T50	T50	T50	T50	T50	T50	T50
TG-A1/PT1000	TG-A1/PT1000	TG-A1/PT1000	TG-A1/PT1000	TG-A1/PT1000	TG-A1/PT1000	TG-A1/PT1000
TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000
TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000
DVD-40-900	DVD-50-900	DVD-60-900	DVD-80-900	DVD-100-900	DVD-120-900	DVD-150-900
DVD-40-1200	DVD-50-1200	DVD-60-1200	DVD-80-1200	DVD-100-1200	DVD-120-1200	DVD-150-1200
T 120	T 120	T 120	T 120	T 120	T 120	T 120
IR24-PC	IR24-PC	IR24-PC	IR24-PC	IR24-PC	IR24-PC	IR24-PC
CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR
CO2RT	CO2RT	CO2RT	CO2RT	CO2RT	CO2RT	CO2RT
MFRO	MFRO	MFRO	MFRO	MFRO	MFRO	MFRO
DVCF40 M5	DVCF50 M5	DVCF60 M5	DVCF80 M5	DVCF100 M5	DVCF120 M5	DVCF150 M5
DVCF40 M6	DVCF50 M6	DVCF60 M6	DVCF80 M6	DVCF100 M6	DVCF120 M6	DVCF150 M6
DVCF40 F7	DVCF50 F7	DVCF60 F7	DVCF80 F7	DVCF100 F7	DVCF120 F7	DVCF150 F7
DVCF40 City Flo	DVCF50 City Flo	DVCF60 City Flo	DVCF80 City Flo	DVCF100 City Flo	DVCF120 City Flo	DVCF150 City Flo

Accessories, supply units

Accessories	DVCompact 10	DVCompact 15	DVCompact 20	DVCompact 25
Repeater, 230V main supply *	E0-R230K	E0-R230K	E0-R230K	E0-R230K
Repeater, 24V main supply *	E0-R	E0-R	E0-R	E0-R
E-Tool cable	ETC	ETC	ETC	ETC
Shut-off damper, inlet	DVA 10	DVA 15	DVA 20	DVA 25
Damper actuator, int/ext (ON/OFF)	LM24A	LM24A	LM24A	LM24A
Damper actuator, int/ext (spring return)	LF24A	LF24A	LF24A	LF24A
Water heater, right	DVH-10-3R-10NC R	DVH-15-3R-14NC R	DVH-20-3R-19NC R	DVH-25-3R-23NC R
Water heater, left	DVH-10-3R-10NC L	DVH-15-3R-14NC L	DVH-20-3R-19NC L	DVH-25-3R-23NC L
Valve actuator	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**
Valve, 2-way. Fits to HWL/HWH coils.	R20...**	R20...**	R20...**	R20...**
Valve, 3-way. Fits to HWL/HWH coils.	R30...**	R30...**	R30...**	R30...**
Water cooling battery, right***	DVK 10	DVK 15	DVK 20	DVK 25
Water cooling battery, left***	DVK 10	DVK 15	DVK 20	DVK 25
Cooling battery, DX coil	DVK****	DVK****	DVK****	DVK****
Droplet eliminator	DVC-10S	DVC-15S	DVC-20S	DVC-25S
Mixing section	DVM 10	DVM 15	DVM 20	DVM 25
Damper actuator, mixing section	LF24A	LF24A	LF24A	LF24A
Inspection section	DVIS-10	DVIS-15	DVIS-20	DVIS-25
Volumeter	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa
Camfil manometer 0-500 Pa	T50	T50	T50	T50
Watertlock with a ball				
Inspection lamp AHU				
Frost protection immersion sensor	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000
Room temperature sensor	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000
Silencer, 900 mm	DVDC 10	DVDC 15	DVDC 20	DVDC 25
Timer	T 120	T 120	T 120	T 120
Presence detector	IR24-PC	IR24-PC	IR24-PC	IR24-PC
CO_2 Room sensor (digital 1/0)	CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR
CO_2 Room sensor (analog 0...10V DC)	CO2RT	CO2RT	CO2RT	CO2RT
M5 Filter	DVCSF10 M5	DVCSF15 M5	DVCSF20 M5	DVCSF25 M5
G4 Filter	DVCSF10 G4	DVCSF15 G4	DVCSF20 G4	DVCSF25 G4
F7 Filter	DVCSF10 F7	DVCSF15 F7	DVCSF20 F7	DVCSF25 F7
Addition LON				
Add. Webserver/EXOline TCP/IP				
E-Bacnet2-V converter				

* Used when the distance between unit and control panel is more than 10 m.
** 2 and 3ways valves are calculated in SystemairCAD for specific conditions.
*** DX coils for the units are calculated in SystemairCAD for specific conditions.

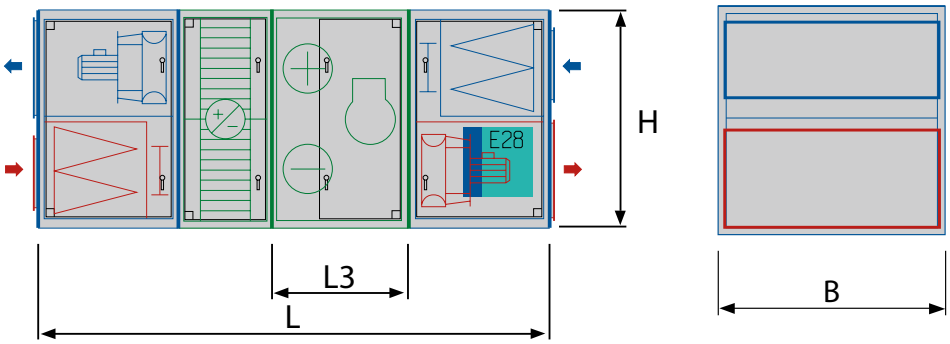
DVCompact 30	DVCompact 40	DVCompact 50	DVCompact 60	DVCompact 80	DVCompact 100
E0-R230K	E0-R230K	E0-R230K	E0-R230K	E0-R230K	E0-R230K
E0-R	E0-R	E0-R	E0-R	E0-R	E0-R
ETC	ETC	ETC	ETC	ETC	ETC
DVA 30	DVA 40	DVA 50	DVA 60	DVA 80	DVA 100
NM24A	NM24A	NM24A	NM24A	SM24A	SM24A
SF24A	SF24A	SF24A	SF24A	SF24A	SF24A
DVH-30-3R-27NC R	DVH-40-3R-36NC R	DVH-50-3R-45NC R	DVH-60-3R-54NC R	DVH-80-3R-44NC R	DVH-100-3R-63NC R
DVH-30-3R-27NC L	DVH-40-3R-36NC L	DVH-50-3R-45NC L	DVH-60-3R-54NC L	DVH-80-3R-44NC L	DVH-100-3R-63NC L
LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**	LR, NR, SR**
R20...**	R20...**	R20...**	R20...**	R20...**	R20...**
R30...**	R30...**	R30...**	R30...**	R30...**	R30...**
DVK 30	DVK 40	DVK 50	DVK 60	DVK 80	DVK 100
DVK 30	DVK 40	DVK 50	DVK 60	DVK 80	DVK 100
DVK****	DVK****	DVK****	DVK****	DVK****	DVK****
DVC-30S	DVC-40S	DVC-50S	DVC-60S	DVC-80S	DVC-100S
DVM 30	DVM 40	DVM 50	DVM 60	DVM 80	DVM 100
SF24A	SF24A	SF24A	SF24A	SF24A	SF24A
DVIS-30	DVIS-40	DVIS-50	DVIS-60	DVIS-80	DVIS-100
DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa
T50	T50	T50	T50	T50	T50
TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000	TG-D3/PT1000
TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000	TG-R5/PT1000
DVDC 30	DVDC 40	DVDC 50	DVDC 60	DVDC 80	DVDC 100
T 120	T 120	T 120	T 120	T 120	T 120
IR24-PC	IR24-PC	IR24-PC	IR24-PC	IR24-PC	IR24-PC
CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR	CO2RT-DR
CO2RT	CO2RT	CO2RT	CO2RT	CO2RT	CO2RT
DVCSF30 M5	DVCSF40 M5	DVCSF50 M5	DVCSF60 M5	DVCSF80 M5	DVCSF100 M5
DVCSF30 G4	DVCSF40 G4	DVCSF50 G4	DVCSF60 G4	DVCSF80 G4	DVCSF100 G4
DVCSF30 F7	DVCSF40 F7	DVCSF50 F7	DVCSF60 F7	DVCSF80 F7	DVCSF100 F7

Accessories, extract units

Accessories	DVCompact 10	DVCompact 15	DVCompact 20	DVCompact 25	DVCompact 30
Shut-off damper, internal	DVA 10	DVA 15	DVA 20	DVA 25	DVA 30
Shut-off damper, external	DVC-10	DVC-15	DVC-20	DVC-25	DVC-30
Damper actuator, internal (spring return)	LF24A	LF24A	LF24A	LF24A	SF24A
Damper actuator, internal (ON/OFF)	LM24A	LM24A	LM24A	LM24A	NM24A
Volumeter	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa
Camfil manometer 0-500 Pa	T50	T50	T50	T50	T50
Inspection lamp AHU					
Silencer, 900 mm	DVDC 10	DVDC 15	DVDC 20	DVDC 25	DVDC 30
Timer	T 120	T 120	T 120	T 120	T 120
G4 Panel filter					

Accessories	DVCompact 40	DVCompact 50	DVCompact 60	DVCompact 80	DVCompact 100
Shut-off damper, internal	DVA 40	DVA 50	DVA 60	DVA 80	DVA 100
Shut-off damper, external	DVC	DVC50	DVC-60	DVC-80	DVC-100
Damper actuator, internal (spring return)	SF24A	SF24A	SF24A	SF24A	SF24A
Damper actuator, internal (ON/OFF)	NM24A	NM24A	NM24A	SM24A	SM24A
Volumeter	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa	DPG 2kPa
Camfil manometer 0-500 Pa	T50	T50	T50	T50	T50
Inspection lamp AHU					
Silencer, 900 mm	DVDC 40	DVDC 50	DVDC 60	DVDC 80	DVDC 100
Timer	T 120	T 120	T 120	T 120	T 120
G4 Panel filter					

DVCompact with built in cooling machine



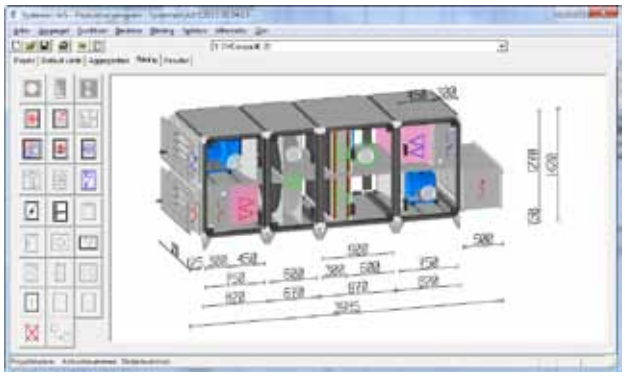
Size	Output version	SFP 300 Pa	Air volume	Cooling kapacity	L3	L	B x H	Volt	Ampere
20	2	<2,0	5600 m³/h	23,5 kw	970	3330	1270	230/400	31/15
25	1	<2,0	5600 m³/h	23,5 kw	970	3330	1420	230/400	31/15
25	2	<2,5	7200 m³/h	32 kw	970	3330	1420	230/400	34/20
30	1	<2,0	7200 m³/h	32 kw	970	3330	1570	230/400	34/20
30	2	<2,5	8800 m³/h	43,5 kw	970	3330	1570	230/400	47/27
40	1	<2,0	9800 m³/h	43,5 kw	970	3630	1720	230/400	47/27
40	2	<2,5	11500 m³/h	56,3 kw	970	3630	1720	230/400	55/32
50	1	<2,0	13000 m³/h	56,3 kw	970	3780	2020	230/400	55/32
50	2	<2,5	16000 m³/h	74,6 kw	970	3780	2020	230/400	65/37
60	1	<2,0	16000 m³/h	74,6 kw	1120	4230	2170	230/400	65/37
60	2	<2,5	19000 m³/h	94 kw	1120	4230	2170	230/400	90/59
80	1	<2,0	21000 m³/h	94 kw	1120	4680	2470	230/400	90/59

Online catalogue

All current product information and documentation is available in the online catalogue at www.systemair.com.

SystemairCAD

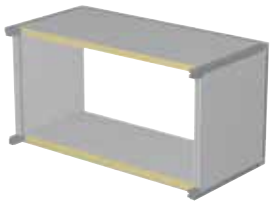
The unique unit selection program SystemairCAD ensures complete documentation that corresponds to the relevant technical regulations. Unit solutions can be created and simulated to optimise DVCompact for a specific project and operating conditions. When the correct unit is selected all technical data is managed and the CAD files exported. SystemairCAD ensures complete documentation for each unit/project.



Components

Casing

The units' casings and doors are made of rustproof sheet steel and are insulated internally with 50 mm rock wool, which has excellent sound and heat insulation properties. The unit's double-skin sheet metal casing is treated with aluzinc 185 to protect against rust and complies with corrosion class C4 as per EN ISO 12944.2. Units are constructed using a strong closed frame profile.



Dampers

The various types of damper used in the units are outdoor air dampers/ exhaust air dampers, mixing dampers and regulating dampers. These comply with air tightness class 3. The circular dampers comprise a pipe union, equipped with damper blades and shaft. The connection ducts have seals of silicone rubber. The rectangular shutter dampers comprise a number of opposing blades housed in nylon bushings in a sheet metal frame. The blades are connected via a link system, which is insulated (protected), on the outside of the frame. The dampers are made of hot-dip galvanized sheet metal and are prepared for external insulation and have a position indicator showing the percentage opening of the damper.

Filters

The units are provided with the bag filters are made of filter cells and is available in classes M5, M6 and F7 for units with heat recovery and G4, M5 and F7 for supply units in accordance with EN779. The large surface area guarantees a long service life. The filter employs a simple system of lateral locking rails, which makes replacing the filters easier, and the tight seal complies with EN1886.

Plug fans

The units have high efficient built-in plug fans with low sound levels and a low pressure drop at the duct connection. The plug fans achieve an efficiency of up to 75%. This type of fan is chosen to ensure optimum performance with regard to airflow, sound level and efficiency. A plug fan is a single-inlet, free-blowing fan with the unit casing acting as the fan casing.

Rotating heat exchanger

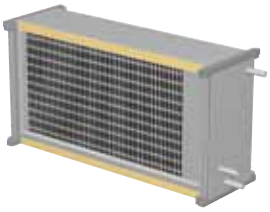
The rotating heat exchanger used in the unit is extremely efficient, up to 85%. Heat exchanger controlled by a motor with variable speed control for close control of the temperature according to the demand. Purging sector to reduce extract air from mixing with supply air is available.

Cross flow heat exchanger

This type of heat exchanger at balanced air flows, efficiency can be around 60%. Heat recovery is controlled via a built-in bypass damper. In units where separate airflows are required, it can be useful to have a cross-flow heat exchanger to perform this function, for example, if you want to avoid supply air being tainted by odors. In cases where no moisture is transferred between the airflows, the cross-flow heat exchanger can be used as a dehumidifier.

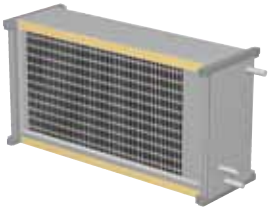
Water Heating coil

The coil is made of copper tubing with a galvanized sheet steel frame and aluminum elements. The coil is positioned after the unit on flanges with vertical pipe connections. It ensures a required supply temperature to the room. Heat carrier can be water or a mixture of glycol with the maximum temperature 100°C. The heating effect is regulated by the unit's control system.



Water cooling coil

The coil is made of copper tubing with a galvanized sheet steel frame and aluminum elements. The coil is positioned after the unit on flanges with vertical pipe connections. It ensures a required supply temperature to the room. Heat carrier can be water or a mixture of glycol. The cooling effect is regulated by the unit's control system.



Electrical heater

The heating coil is positioned after the unit on flanges to provide a comfortable supply air temperature even at low outdoor air temperatures. It comprises a frame of galvanized sheet steel with stainless steel elements. The heating effect is regulated by the unit's control system.

DX Cooling coils

DX cooling coils are made of copper tubing and have aluminum elements and provided with a drip tray. The coil, which has multiple capacity variants, placed after the fan on flanges. It ensures a required supply temperature to the room. The coil supplied insulated, with drip tray and vertical pipe connections. The cooling effect is regulated by the unit's control system.

Silencers

Silencers are a functional element used to reduce the transfer of unit noise to the building and surroundings. They are fitted with aluzinc 185-coated steel panel frames and baffles. Silencers are available as an external accessory placed on flanges.

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