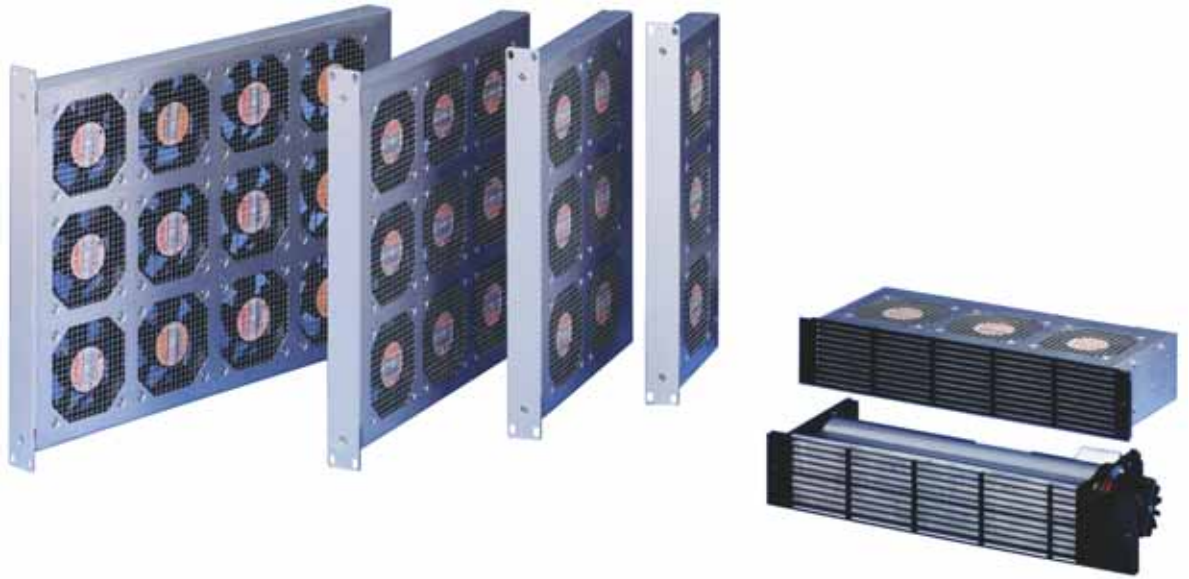


Climate control – 19" fan trays

OVERVIEW

MAIN KATALOG

Cabinets	1
Wall mounted cases	2
Accessories for cabinets and wall mounted cases	3
Climate control	4
Electronics cases	5
Subracks/ 19" chassis	6
Front panels, plug-in units	7
Systems	8
Power supply units	9
Backplanes	10
Connectors, front panel component system	11
Appendix	12



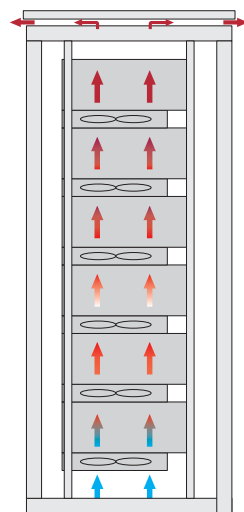
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STANDARDS/APPROVALS

- 19" assembly area in accordance with: IEC 60297-3-101
- Mechanical protection to DIN EN ISO 13857
- Contact protection to DIN EN ISO 13857
- Electrical safety to EN 60335 part 1
- Plastics self-extinguishing to UL 94 V0

AIRFLOW

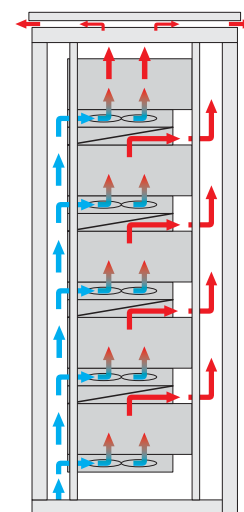
VERTICAL AIRFLOW (CONTINUAL WARMING)



01109055

With vertical airflow the air becomes steadily warmer as it rises through the cabinet.

DIVERTED AIRFLOW (EFFECTIVE COOLING)



01109054

By using the 1 U airflow element, air is introduced from the front and extracted to the rear. Now all sub-assemblies receive the same cooling air.

Climate control – 19" fan trays

OVERVIEW

19" FAN TRAYS

- To cool single components and assemblies in 19" cabinets
- High airflow rate for directed heat removal
- With axial or radial fans
- For voltages 230 V_{AC}, 115 V_{AC} or 24 V_{DC}
- CE- approvals



19" FANS

- 19" circulation fan, height 1 U
- 230 V_{AC}, 115 V_{AC} and 24 V_{DC}
- Up to 1000 m³/h
- With/without mains switch or with temperature-dependent speed control



19" PUSHER FANS

- Tangential fan, height 2 U
- 230 V_{AC} and 115 V_{AC}
- Up to 320 m³/h



- 19" pusher fan, height 2 U
- 230 V_{AC} and 115 V_{AC}
- Up to 530 m³/h



- 19" pusher fan, height 3 U
- 230 V_{AC} and 115 V_{AC}
- Up to 570 m³/h
- Variable air outlet with/without pipe connection, upward or to rear

SERVICEPLUS

- e.g. other airflow capacities
- e.g. supply voltages
- e.g. other dimensions
- e.g. custom solutions

Overview 4.4

19" fans
1 U with/without front switch 4.6
1 U speed-controlled and monitored 4.8

19" blower units
Pusher fan, 2 U with tangential blower . . 4.9

Pressure fan, 2 U, (160, 220 mm deep) 4.10

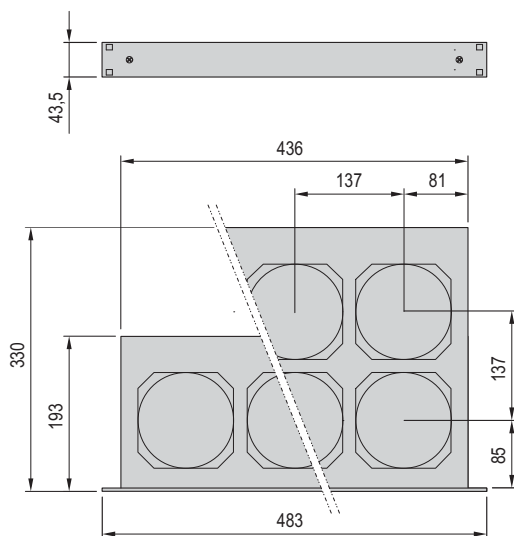
Pusher fan, 3 U . . . 4.12

ServicePLUS configuration 4.14

Accessories
19" airf 4.15
AC fans 4.16
DC fans 4.16

Climate control – 19" fan trays

19" FAN 1 U



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KTAA4306

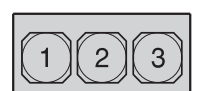
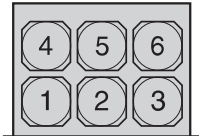
- Mechanical strain relief for mains cables
- Can be adapted to subracks
- Contact protection in accordance with DIN EN ISO 13857



DELIVERY COMPRISES (ready to connect)

Item	Qty	Description
1	1	19" circulation fan, 1 U, cover/base plate, St, 1 mm, finish AlZn, with perforation; front panel 1 U, Al, 3 mm, anodised
2	3 / 6	Fan, see Order Information
3a	1	AC with IEC connector (mains input IEC 60320), incl. safety clamp for mechanical strain relief
b3	1	DC version with connecting cable, cable length 2.5 m

ORDER INFORMATION

	24 V _{DC} Part no.	115 V _{AC} Part no.	230 V _{AC} Part no.
 10713-103	10713-102	10713-100	
 10713-107	10713-106	10713-104	
Replacement fan 1 piece	20713-240	20713-244	20713-243
Side panel connecting bracket between europacPRO subrack and fan, including fixing material kit, PU 4 pieces			21101-954
Equipment cable SCHUKO/UTE SCHUKO/UTE plug, IEC 60320 C13 socket, 2.5 m, 1 piece			60103-131
Equipment cable, BS British Standard plug, IEC 60320 C13 socket, 2.5 m, 1 piece			60103-137
Equipment cable, USA USA plug, IEC 60320 socket, 2 m, 1 piece			60103-141

TECHNICAL DATA

Voltage	230 V _{AC}	115 V _{AC}	24 V _{DC}
Frequency in Hz	50 60	50 60	-
Number of fans	3/6	3/6	3/6
Airflow volume in m ³ /h (3/6 fans)	440/845 520/1000	440/845 520/1000	506/970
Noise level in dB(A) (3/6 fans)	56.5/59.4 60.2/62.9	56.5/59.4 60.2/62.9	60.5/63.3
Power consumption in W (3/6 fans)	45/90 42/84	46.5/93 43.5/87	24/48
Max. stat. pressure in Pa	73 88	73 88	68
Permissible ambient temperature in °C	-40 ... +70 °C		
Lifespan in h L ₁₀ 40 °C	43500		
Lifespan in h L ₁₀ 55 °C	20000		

NOTE

- Fan dimensioning see page 4.18
- Replacement fans see chapter Climate control - Accessories
- Versions with multiple fans see ServicePLUS configuration page 4.14

Climate control – 19" fan trays

SERVICEPLUS: CONFIGURATION WITH ASSEMBLY



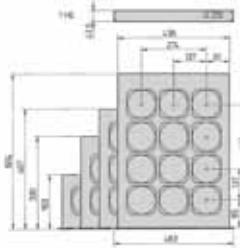
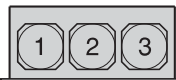
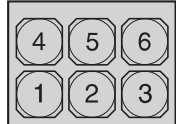
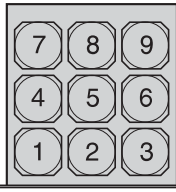
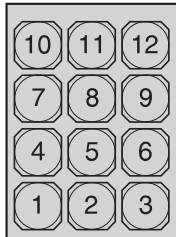
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- You can plan and build up your product yourself using the order information table below
- Dimensions of fan trays
 - Height 1 U
 - Width 19"
 - Depth 193, 300, 467, 604 mm for 3, 6, 9 or 12 fans
- Create your 19" fan trays from individual parts (assembled within 10 working days)

Example configuration

Qty	Description	Order no.
1	Housing, 1 piece	20713-213
1	Front panel with switch, AC, 1 piece	20713-231/05
1	Filter mat, 1 piece	60713-246/05
6	Fan, AC, height 25 mm; mounted at position 1, 3, 5, 7, 9, 11	20700-001/05

ORDER INFORMATION

	Fan height	Fan housing 1)	Front panel without switch		Front panel with switch		Filter mat G 2	Fans
			AC (230 V)	DC	AC (230 V)	DC		
 a44537	mm	cover/base plate, St, 1 mm, finish AlZn, with perforation	1 U, Al, 3 mm, anodised; includes cable harness	1 U, Al, 3 mm, anodised; connecting cable, 2.5 m; includes cable harness	1 U, Al, 3 mm, anodised; mains switch, illuminated green; includes cable harness	1 U, Al, 3 mm, anodised; mains switch, illuminated green; connecting cable, 2.5 m; includes cable harness	can only be fitted where fan height is 25 mm	
	25	1 piece	1 piece	1 piece	1 piece	1 piece	PU 3 pieces	see page
 KTA44857	25	20713-212	20713-220/05	20713-224/05	20713-228/05	20713-236/05	60713-243	4.16
	38	20713-216	20713-220/05	20713-224/05	20713-228/05	20713-236/05	–	4.16
 KTA44858	25	20713-213	20713-221/05	20713-225/05	20713-229/05	20713-237/05	60713-244	4.16
	38	20713-217	20713-221/05	20713-225/05	20713-229/05	20713-237/05	–	4.16
 kta44859	25	20713-214	20713-222/05	20713-226/05	20713-230/05	20713-238/05	60713-245	4.16
	38	20713-218	20713-222/05	20713-226/05	20713-230/05	20713-238/05	–	4.16
 kta44860	25	20713-215	20713-223/05	20713-227/05	20713-231/05	20713-239/05	60713-246	4.16
	38	20713-219	20713-223/05	20713-227/05	20713-231/05	20713-239/05	–	4.16

1) Fan housing cannot be ordered without fans

NOTE

- Unused fan mounting positions are covered with foam material
- Versions for 115 V or with switch available on request
- Fan dimensioning see page 4.18