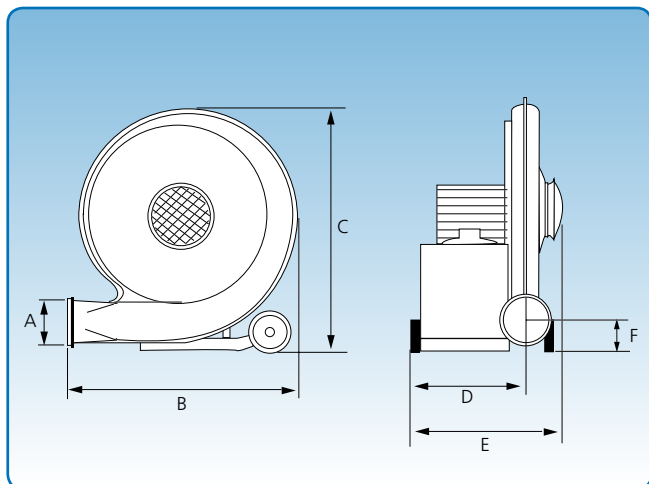
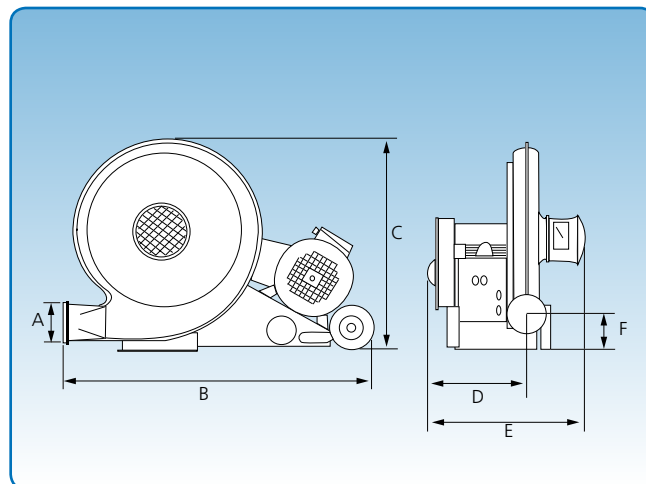


High-pressure fans type JK-HT

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Types JK-2HT - JK-7HT with direct drive. JK-5HT is only available with throttle valve. Dimensional specifications are given in the table below.



Type JK-10HT and JK-15HT with indirect drive. Dimensional specifications are given in the table below.

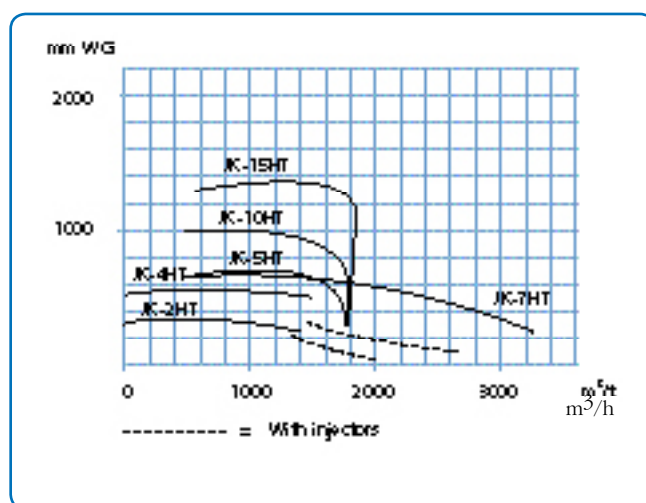
The JK-HT high-pressure fans are one-step centrifugal fans with sealed impellers. They are designed for transport of granular material with a density of between 0.2 and 1.2 tons/m³.

The material is delivered via a duct system using an injector or feeder unit. Material must never be transported through the fan.

The rotor is manufactured with backward-inclined blades. The aerodynamic design ensures high efficiency with low energy consumption.

The JK-2CFA and JK-3CFA feeder units or the injectors 2, 4 and 5 can be mounted on the high-pressure fans.

Ideal for transport, ventilation and extraction.



Type	Dimensions						Noise level at 7m dB(A)	Min. fuse rating amp.	Power consumption amp.
	A mm	B mm	C mm	D mm	E mm	F mm			
JK-2HT	JK-6"	635	675	335	485	130	64	10	3,4
JK-4HT	JK-6"	755	840	420	580	120	64	16	6,3
JK-5HT	JK-6"	755	840	420	670	129	77	16	8,5
JK-7HT	JK-6"	755	860	420	580	140	71	20	11,5
JK-10HT	JK-6"	1140	830	435	695	120	73	25	15,5
JK-15HT	JK-6"	1140	830	435	695	120	81	35	21,5

High-pressure fans type JK-HT

Technical data

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Type JK-2HT

Motor size: 1.5 kW (2 hp)
RPM: 2,850 RPM
Max. air volume: 1,900 m³/h
Max. air pressure: 250 mm WG
Rotor speed: 2,850 RPM
Weight: 35 kg

Type JK-4HT

Motor size: 3 kW (4 hp)
RPM: 2,850 RPM
Max. air volume: 2,600 m³/h
Max. air pressure: 350 mm WG
Rotor speed: 2,850 RPM
Weight: 67 kg

Type JK-5HT

Motor size: 4 kW (5.5 hp)
RPM: 2,850 RPM
Max. air volume: 1,800 m³/h
Max. air pressure: 650 mm WG
Rotor speed: 2,850 RPM
Weight: 76 kg

Type JK-7HT

Motor size: 5.5 kW (7.5 hp)
RPM: 2,850 RPM
Max. air volume: 3,200 m³/h
Max. air pressure: 650 mm WG
Rotor speed: 2,850 RPM
Weight: 96 kg

Type JK-10HT

Motor size: 7.5 kW (10 hp)
RPM: 2,850 RPM
Max. air volume: 1,800 m³/h
Max. air pressure: 950 mm WG
Rotor speed: 3,650 RPM
Weight: 129 kg

Type JK-15HT

Motor size: 11 kW (15 hp)
RPM: 2,850 RPM
Max. air volume: 1,800 m³/h
Max. air pressure: 1,300 mm WG
Rotor speed: 4,200 RPM
Weight: 157 kg

Common specifications:

Motor: IP 55
Power supply: 3 x 400 V - 50 Hz

High pressure fans

	L_{eq} (m)
JK-2HT + injector 2	4.5
JK-4HT + injector 4	5.7
JK-5HT/JK-7HT + injector 5	5.9
JK-5HT/JK-7HT + JK-2CFA	7.4
JK-10HT + JK-2CFA	8.9
JK-15HT + JK-2CFA/JK-3CFA	9.2

Transport capacity:

Air temperature = 20°C
Air pressure = 760 mm Hg

Horizontal and vertical duct lines with min.
2 m of straight ducts only between bends etc.

Transport capacity (tons/h) for barley, rye and maize:

Transport length (m)	10	20	30	40	50	60	80	100	120	150	200
JK-2HT + Injector 2	2.5	2.0	1.7	1.4	1.2	1.0	0.7	0.5			
JK-4HT + Injector 4	4.3	3.6	3.0	2.6	2.3	2.0	1.6	1.2			
JK-5HT-JK-7HT + Injector 5	4.7	3.9	3.3	2.9	2.5	2.2	1.8	1.4	1.1	0.8	
JK-5HT-JK-7HT + JK-2CFA	8.7	7.4	6.4	5.6	4.9	4.4	3.5	2.9	2.4	1.8	
JK-10HT + JK-2CFA	16.4	13.8	11.9	10.3	9.1	8.0	6.4	5.2	4.3	3.2	2.0
JK-15HT + JK-2CFA	16.5	15.9	15.3	14.7	13.2	11.7	9.3	7.6	6.2	4.6	2.9
JK-15HT + JK-3CFA	23.9	20.2	17.3	15.0	13.2	11.7	9.3	7.6	6.2	4.6	2.9

Transport capacity (tons/h) for wheat, rape and peas:

Transport length (m)	10	20	30	40	50	60	80	100	120	150	200
JK-2HT + Injector 2	2.3	1.9	1.6	1.3	1.1	0.9	0.7	0.5			
JK-4HT + Injector 4	4.0	3.3	2.8	2.5	2.1	1.9	1.5	1.1			
JK-5HT-JK-7HT + Injector 5	4.3	3.7	3.1	2.7	2.4	2.1	1.6	1.3	1.1	0.8	
JK-5HT-JK-7HT + JK-2CFA	8.2	6.9	6.0	5.2	4.6	4.1	3.3	2.7	2.2	1.7	
JK-10HT + JK-2CFA	15.3	12.9	11.1	9.7	8.5	7.5	6.0	4.9	4.0	3.0	1.9
JK-15HT + JK-2CFA	18.5	17.9	16.2	14.1	12.3	10.9	8.7	7.1	5.8	4.3	2.7
JK-15HT + JK-3CFA	22.3	18.8	16.2	14.1	12.3	10.9	8.7	7.1	5.8	4.3	2.7

Transport capacity (tons/h) for oats:

Transport length (m)	10	20	30	40	50	60	80	100	120	150	200
JK-2HT + Injector 2	2.5	2.0	1.7	1.4	1.2	1.0	0.7	0.5			
JK-4HT + Injector 4	4.3	3.6	3.0	2.6	2.3	2.0	1.6	1.2			
JK-5HT-JK-7HT + Injector 5	4.7	3.9	3.3	2.9	2.5	2.2	1.8	1.4	1.1	0.8	
JK-5HT-JK-7HT + JK-2CFA	8.7	7.4	6.4	5.6	4.9	4.4	3.5	2.9	2.4	1.8	
JK-10HT + JK-2CFA	11.9	11.6	11.2	10.3	9.1	8.0	6.4	5.2	4.3	3.2	2.0
JK-15HT + JK-2CFA	11.9	11.6	11.2	10.9	10.5	10.2	9.3	7.6	6.2	4.6	2.9
JK-15HT + JK-3CFA	19.8	19.3	17.3	15.0	13.2	11.7	9.3	7.6	6.2	4.6	2.9

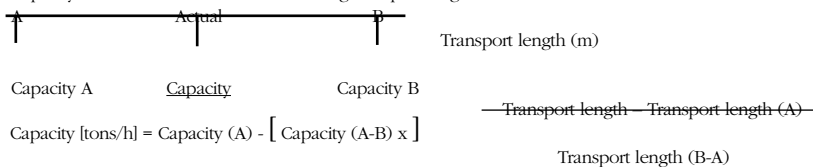
Capacity calculation:

Capacities given in the table apply to horizontal duct line + 4 m vertical ducts + 2 x 90° bends + outlet cyclone.

- Transport length (m) = (horizontal length) + (vertical length) + (vertical length x 1.2) + ((number of 90° bends - 2) x L_{eq}) + (number of 30° bends x 1/3 L_{eq}) + (number of 45° bends x 1/2 L_{eq}) + (number of 60° bends x 2/3 L_{eq}) - 4.8.

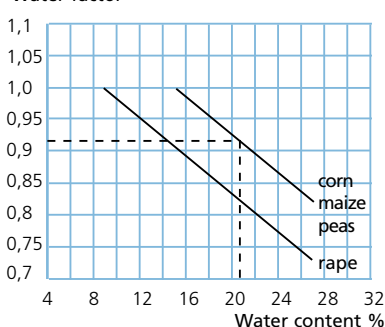
L_{eq} can be read from the table (bottom left) for actual combination of components.

- Capacity is read from the above tables using transport length as follows:

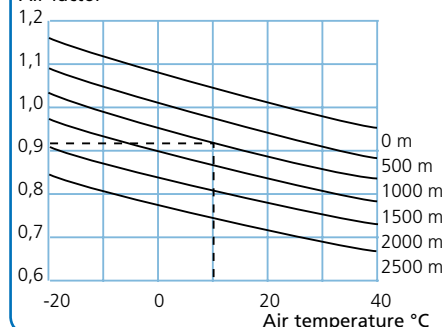


- Capacity corrected for water content + temperature + pressure. Correction factor can be seen in the diagrams below. Corrected capacity = Capacity x water factor x air factor.
Note that calculated capacity is intended as a guide only, as leaks, grain size etc. can affect capacity.

Water factor

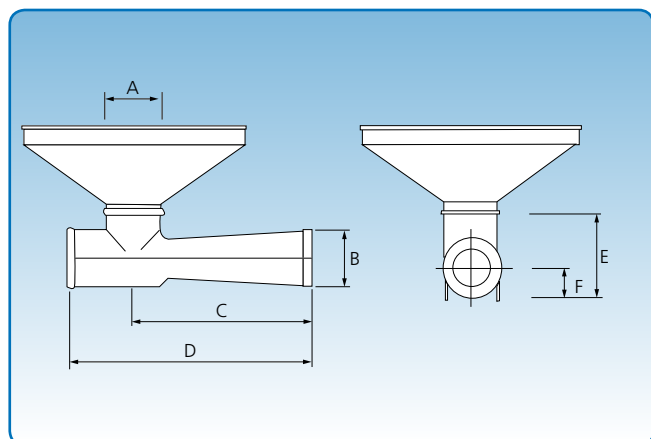


Air factor



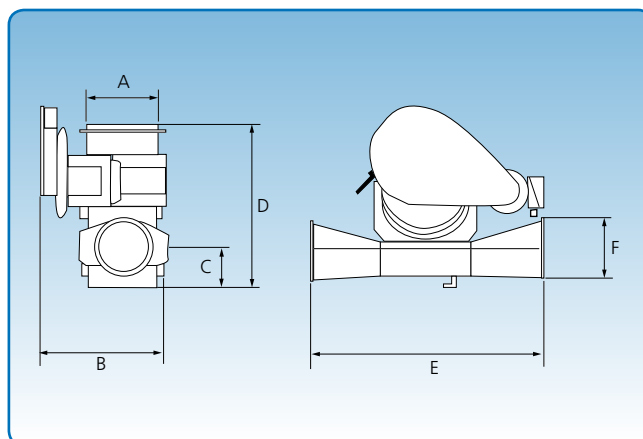
Injectors and feeder units

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Injector. Dimensional specifications are given in the table below.

The injectors are designed for mounting on high-pressure fan types JK-2HT, JK-4HT, JK-5HT and JK-7HT.



Feeder unit. Dimensional specifications are given in the table below.

The feeder unit types JK-2CFA and JK-3CFA are designed for pneumatic transport in horizontal ducting.

They can be mounted in horizontal duct lines and withstand dust and pebbles taken in with the grain.

The rotor blades in the feeder units are rubber instead of steel, which flex when struck by hard objects in the air flow, avoiding being damaged.

Designed for use with JK-5HT, JK-7HT, JK-10HT and JK-15HT high-pressure fans where JK-15HT can be mounted with either JK-2CFA or JK-3CFA.

Type feeder units	A	B	C	D	E	F
JK-2CFA	JK-8"	370	110 - 130	445 - 465	660	JK-6"
JK-3CFA	JK-8"	460	120	495	850	JK-6"

Type injectors	A	B	C	D	E min.	F max.
Type 2	JK-6"	JK-6"	500	670	220 - 275	100 - 155
Type 4	JK-6"	JK-6"	500	670	220 - 275	100 - 155
Type 5	JK-6"	JK-6"	500	670	220 - 275	100 - 155