VENTURI AIR BLOWERS CHEGEJ

Venturi air blowers CHEGEJ are a perfect solution for moving air in confined spaces or for venting hazardous areas. Compressed air or steam is their power source.
Operate on the Venturi principle of using small volumes of high pressure air that run through the aluminum casting and out the nozzle jet, creating a pulling action that induce large volume of air through the venturi cone and out the air diffuser.
The required compressor size can be determined by checking the table on the air consumed at various inlet pressures.
The particular free passage construction allows to reduce to a minimum the load losses.
They guarantee high suction ratios in all conditions of use.
Built in cast aluminum alloy head and galvanized steel cone (primer and powder RAL 2008.)
Venturi air blowers CHEGEJ are powerful enough for use with flexible duct, yet light enough to carry from job to job as they are equipped with comfortable handles.

PERFORMANCES TABLES

CHEGEJ TYPE 3S				
MOTIVE PRESSURE (bar g)	2	4	6	8
MOTIVE AIR FLOW Sm3/h (kg/h)	45 (55)	76 (93)	107 (131)	137 (168)
TOTAL AIR FLOW (Sm3/h)	1530	2230	2620	3030
Induction ratio	34	29	24.5	22
Max suction pressure (blind vacuum, mbar)	10	14	19	24

CHEGEJ TYPE 3				
MOTIVE PRESSURE (bar g)	2	4	6	8
MOTIVE AIR FLOW Sm3/h (kg/h)	45 (55)	76 (93)	107 (131)	137 (168)
TOTAL AIR FLOW (Sm3/h)	1640	2485	2880	3420
Induction ratio	36.5	32.5	27	25
Max suction pressure (blind vacuum, mbar)	10	14	19	24

CHEGEJ TYPE 6				
MOTIVE PRESSURE (bar g)	2	4	6	8
MOTIVE AIR FLOW Sm3/h (kg/h)	94 (115)	159 (195)	220 (270)	285 (350)
TOTAL AIR FLOW (Sm3/h)	4250	6410	7770	8700
Induction ratio	45	40	35	30.5
Max suction pressure (blind vacuum, mbar)	7	10	15	18

CHEGEJ TYPE 8				
MOTIVE PRESSURE (bar g)	2	4	6	8
MOTIVE AIR FLOW Sm3/h (kg/h)	170 (209)	289 (354)	404 (495)	518 (635)
TOTAL AIR FLOW (Sm3/h)	6270	9060	10640	11880
Induction ratio	37	31	26	23
Max suction pressure (blind vacuum, mbar)	6	9	14	17

CHEGEJ TYPE 9				
MOTIVE PRESSURE (bar g)	2	4	6	8
MOTIVE AIR FLOW Sm3/h (kg/h)	253 (310)	428 (525)	636 (780)	884 (1085)
TOTAL AIR FLOW (Sm3/h)	7860	11225	13540	16820
Induction ratio	31	26	21	19
Max suction pressure (blind vacuum, mbar)	9	13	18	21

APPLICATION AND CHARACTERISTICS

- **Shipyards**
  Venturi air movers CHEGEJ are used to ventilate the confined spaces where smoke and welding fumes accumulate.
- **Marine industries**
  Cargo tanks and fuel supply vessels must exhaust volatile fumes after emptying the cargo holds: air movers can quickly and safely exhaust fumes from these areas.
- **Chemical plants and refineries**
  Fumes that are sometimes poisonous, explosive or noxious, must be removed from process towers, tanks, large pipes, before workers are allowed entry into these areas.
  They can be also used for material conveying (powder and dust).
- **Steel and paper mills**
  Air movers are used to remove toxic gases and to cool hot iron ladles and heavy equipment prior to repair and maintenance. Ideal for improving breathing conditions in hazardous area.
- **Manhole operations**
  Heavy gases must first be vented from underground spaces prior to carrying out maintenance.
  The use of electricity could cause an explosion, while air mover CHEGEJ is intrinsically safe for this environment.
- **Packaging industry and printing house**
  Pressured air feeds venturi CHEGEJ to create a powerful inline conveyor that moves small parts, shavings, paper or plastic scraps.

CHEGEJ TYPE

NOISE VALUES

	Bar g	dB(A)
MOD.3	4	81
MOD. 3	6	85
MOD. 3	8	89
MOD.3S	4	81
MOD. 3S	6	85
MOD. 3S	8	89
MOD. 6	4	85
MOD. 6	6	89
MOD. 6	8	93
MOD. 8	4	87
MOD. 8	6	91
MOD. 8	8	95
MOD. 9	4	88
MOD. 9	6	92
MOD. 9	8	95

Measured @ 1mt

- Feeding fluid: compressed air or steam (max 10 bar)
- No moving parts, minimum maintenance.
- Multiple inlet threaded connection.
- Induction ratio: up to 45.
- Sturdy grounding clamp with 2.0 m yellow retractable cable.
- Accept flexible duct on discharge or suction (see dedicated table)
- Inlet adapters available on request.

OPERATION AND SAFETY INSTRUCTIONS

Any time the Venturi air mover is used in volatile atmosphere, attach a ground wire to discharge any static electricity.

When the evacuation of gas or fumes takes place in closed tanks, take care not to create a vacuum that could collapse the vessel.

It is possible to supply (as optional) inlet duct adapters (fig.2) to interface to any pipe or duct.

Do not allow solid objects or debris to enter inlet housing during operation.

Prior to using the air moving CHEGEJ make sure that all nozzle jet are open and operable.

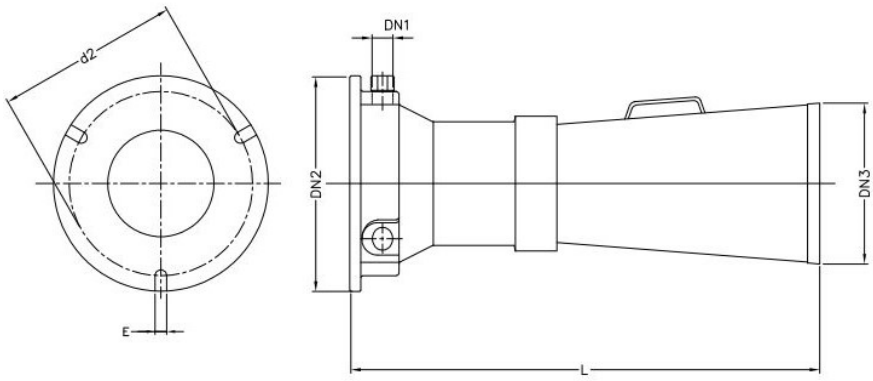
Prevent clogging of nozzle jet and periodically steam clean for proper maintenance.

Fig.1

Fig.2

PERFORMANCES TABLE THROUGH FLEXIBLE DUCT OF VARIOUS LENGTHS (motive pressure 6 bar g)
installed indifferently on suction or discharge

TYPE	DUCT DIAMETER	AIR FLOW RATE	6 mt	9 mt	12 mt	15 mt
	Inch/mm	Sm3/h	Sm3/h	Sm3/h	Sm3/h	Sm3/h
3S	8”/203	2620	2200	2102	2004	1925
3	8”/203	2880	2610	2508	2389	2288
6	12”/305	7770	7000	6720	6465	6225
8	14”/356	10640	9770	9290	8880	8525
9	14”/356	13540	11761	11250	10735	10300



OVERALL DIMENSIONS (mm)

TYPE	DN1	DN2	DN3	L	Suction connection with slots			Weight (kg)
					d2	N.°	E	
3S	1/2” NPT	190	152	419	165	3	10	3.5
3	1/2” NPT	190	185	838	165	3	10	5.0
6	1” NPT	292	305	1123	274	3	10	11.5
8	1” NPT	363	356	1168	343	3	10	16
9	1” NPT	427	356	1168	387	10	23	19.5