

COVERED DISTANCE	<i>up to 100 m</i>
QUANTITY PER LINE	<i>300-1500 kg/hour</i>
POWER	<i>11 ÷ 22 kW</i>
VOLTAGE	<i>230/400 V</i>
LOADING	<i>continuous</i>
CIVIL WORKS	<i>none</i>
VERSATILITY	<i>maximum</i>
TYPE OF SWARF	<i>any</i>

DESCRIPTION

It is a simple but extremely powerful system that allows to transfer short and dry swarf from one point to another in the company by using a small diameter pipe. In FAMA s.r.l. systems it is normally used to load silos, when these are particularly far from the treatment area, replacing bulky evacuation channels. The system is powered by a displacement pump, which provides enough pressure to generate a fast air flow that moves the swarf. A dosing device continuously feeds the system to optimise transportation.

THE DESCRIBED DATA ARE TO BE CONSIDERED AS LIMIT VALUES. EVERY CASE MUST BE STUDIED, ANALYSED, SIZED AND DESIGNED.

SUPPLY

- Displacement pump;
- Screw dosing device;
- Venturi ejector;
- Clogging rotating sensor;
- Delivery manifold in AISI304 stainless steel, complete with bends and couplings;
- Main electrical panel, electrical wiring and compressed air line.

OPTIONAL

- Double, triple (or more) delivery line in case of multi material;
- Anti-wear kit for venturi ejector;
- Curves with anti-wear extrados;
- Double guillotine for systems that have to work 24 hours a day;
- Soundproof cabin;
- Inlet cyclonic separator;
- Synoptic remote control;
- Remote assistance.

HOURLY PRODUCTION

Q = 0.6 m ³ /h	BRASS	STEEL	ALUMINIUM	STAINLESS STEEL	COPPER	CAST IRON
Δ density [kg/dm ³]	1.5	1.3	0.8	1.1	1.0	1.4
Kg/h →	From 300 kg/h to 1500 kg/h depending on the situation					

THE DATA IN kg/h ARE APPROXIMATE AND IN ANY CASE DEPEND ON THE DENSITY OF THE SWARF, THE SHAPE, THE OIL CONTENT AND THE TYPE OF COOLANT. THE DENSITY DATA CONSIDERED ARE HYPOTHETICAL, BASED ON AN EXPERIMENTAL AVERAGE OF THE DATA IN OUR POSSESSION.

FAMA RESERVES THE RIGHT TO MAKE CHANGES TO THE PRODUCT WITHOUT NOTICE

Uffici e Produzione /Offices and production site: Via del Terziario, 20 36016 THIENE (VI) ITALY – Tel.+39 0445 363950 fax +39 0445 386068

Sede Legale/ Registered office: Via S. Antonio, 11 -- 36030 FARA VICENTINO (VI) ITALY Tax Code/VAT no.: IT 02290490248 Share Capital

€ 100,000.00 Economic and Administrative Index no. VI 220095 <http://www.famaproject.com> e-mail info@famaproject.com

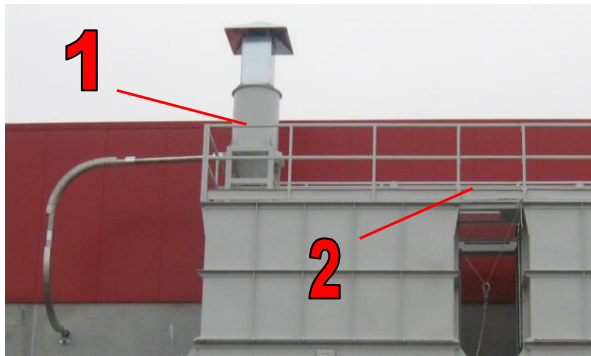
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PNEUMATIC DELIVERY SYSTEM

OPERATION

The system is operated by a pressure pump [A], which provides enough energy to push the swarf. This is transferred from the treatment to the storage area. A dosing device [B] acts as a lung to regulate swarf flow to the system and to balance the hourly production. A special device [C] converts the pressure energy into kinetic energy. The swarf courses along the line [D] to the storage site [E] (silo, detachable container, ...).



EXAMPLE: In the case of double or triple silos, the swarf inlet is managed by a cyclonic separator [1], which loads a vane conveyor channel [2] for redistribution of the swarf into the various silos.

EXAMPLE: In the case of a single silo, the swarf inlet is direct.



Note: Year 1999, one of the first pneumatic delivery systems, still in operation today. Shown are the pump, the ejector and the dosing device, vertical version.

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