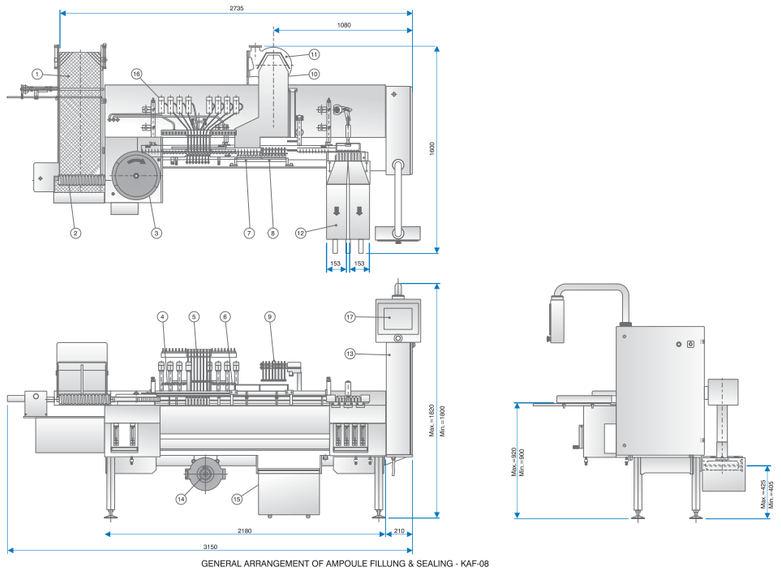
TECHNICAL SPECIFICATION

Model	KAF - 06	KAF - 08
Receptacle Range	Constricted Neck and Funnel Ampoules	
Diameter-mm	9 to 22	9 to 16
Height-Open Amp. - mm	60 to 130	60 to 105
Filling Range - ml	1 to 20	1 to 10
Nominal output - Ampoules/hr*	Max upto14400	Max upto18000
Running Direction	Left to right	
Total Power - kW	Approx. 0.85 to 2.62	
Electrics	(a) 415 V / 3 Phase / 50 Hz	
	(b) 380 V / 3 Phase / 60 Hz	
	(c) 220 V / 3 Phase / 60 Hz	
Overall Dimensions - W x D x H - mm	3050 x 1600 x 1820	3150 x 1600 x 1820
Case Dimensions - W x D x H - mm	3500 x 1800 x 2000	3500 x 1800 x 2000
Net Weight-Kg	860	940
Gross Weight-Kg	1250	1400

*Depending upon Quality of Glass & Viscosity of Product.

GENERAL ARRANGEMENT



GENERAL ARRANGEMENT OF AMPOULE FILLUNG & SEALING - KAF-08

1 Conveyor Belt (SS Wire)
2 Ampoule Feed ScrewStand
3 Segment
4 Pre Gasing Station
5 Filling Station
6 Post Gasing Station
7 Burner for Pre Heating
8 Burner for Final Heating
9 Draw-Off Station
10 Suction Nozzle
11 Blower
12 Discharging Hopper
13 Main Electric Panel Box
14 Hand Wheel
15 Glass Collector
16 Piston-Syringe Housing
17 Swing Panel with HMI

Note: All dimensions are milimeter

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HIGH SPEED AMPOULE FILLING AND SEALING MACHINE

KAF-06, KAF-08

Industries
Pharmaceutical

The basic design principle and the type of operation of KAF-06 & KAF-08 offer is the optimum reliability for conveying the containers, for the filling process, for sealing and for the outfeed.

Superiority in operation and performance through modern linear construction offer may advantages as regards reliability and ease of operation.

All the functions of the machine can be seen and checked, Good accessibility to all work stations, easy access to the handy change parts thanks to the tilt-away burner station and easy to install guides.

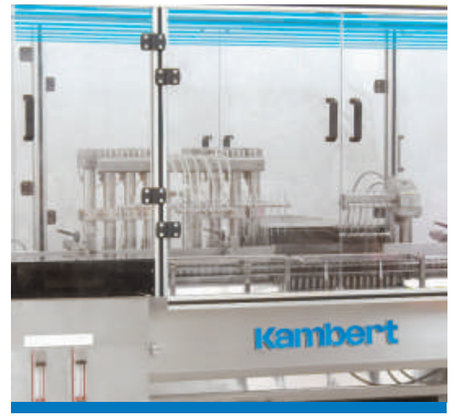
The linear conveying system consists of a cam controlled walking beam, the narrow ampoule slide rail, an upper and lower centering beam with corresponding back up supports as well as the presser rollers, in the sealing area.

The machine operates intermittently and guarantees accurate individual spacing of the ampoule tips to match the stations as well as perfect vertical fixing while at rest. (No problems during filling caused by the conveying system).

AMPOULE SEALING SECTION

The ampoule tips in the sealing are pre-centered during the rotary motion with a V type spring loaded gripper. The ampoule has at that time the small clearance needed for the rotary motion. Together with the continuous rotary motion, neat, leak tight and uniform domes and seals are achieved. After the melt-down process, the v-notch tongs grip the ampoule ends and deposit them in a collector book. Each sealing station in the preheating and sealing sections is allocated a single nozzle torch for a gas/oxygen mixture.

Conveying takes place outside the flame zone; the torches are for this purpose swiveled away. Opposite the torch station is a heat extraction unit to maintain the effectiveness of the sealing quality.



PRECISION FEEDING SYSTEM

Ampoule feed is orderly and extremely gentle with the containers. With slow motions, a feed screw spaces the ampoules. The segments of the transfer wheel pass the ampoules with gentle acceleration to the conveying system.

THE GAS FLUSHING AND FILLING STATIONS

Machine is equipped with pre/post and pre-sealing gas flushing and product dispensing take place while the ampoule is temporarily at rest; a big advantage for trouble free filling. The gas flushing and filling needles descend into the ampoules at this time.

A 3-point centering arrangement at the tip (2 centering rollers and 1 spring loaded back-up support) guarantees that the container opening is perfectly centered underneath the filling needle.

AMPOULE FILLING SECTION

The rotary valve pump consisting of a cylinder, pump piston & rotary valve. The rotary valve is made of SS and Hard Chromed surface. The rotation of the valve and the pump stroke result in the filling process. The rotary valve is controlled by the 'no ampoule-no filling' monitoring station.

The filling cam for all pumps can be set centrally with a hand wheel, also while the machine is running; from the minimum setting up to the maximum dispensing range of the pump size in question. Each pump is equipped with a fine adjustment for setting the pump volume and the amount of drawback. The slight draw back prevents dripping after filling and in addition reduces the risk of wetting the ampoule tip. The hoses are made from silicon rubber on the suction & Filling side; the filling pipes are made of alloy steel.

- Contact parts SS 316
- Maximum efficiency with minimum breakage or rejections
- Overhung construction
- Linear Conveying system
- Reliable precision filling (Without wetting the tip)
- Ergonomically sound, Neat arrangement and easy access to all work stations
- No ampoule No filling system
- Simple Size Change over
- Constant product quality
- Low wear, Econimical operation
- Pre & Post gassing station
- Nitrogen interlock system
- Backlock system
- PLC with HMI Control & Printing facility

- Servo filling system
- Auto Ignition system
- LPG leak detection system
- LPG, & Oxygen Interlock system
- SS /Aluminum frame
- Polycarbonate/Tuffenglass guards with safety interlock
- 10" Touch screen HMI