



**FAP Srl**

Via G.Verga, 5 | 20842 Besana Brianza (MB) | Italy  
tel. +39 0362 994943 | fax +39 0362 942256 | www.fapitaly.com | info@fapitaly.com



## TECHNICAL DATA – EXTRUSION LINE EXT 452

### 01 GENERAL INFORMATION

FAP's extrusion line EXT 452 produces **polyethylene (PE)** and **polypropylene (PP) expanded film** using "Direct Gasing" extrusion technology that can be used in all production fields where it is necessary to insulate, package, protect (for example in building, electric and electronic, mechanical, automotive, food industries, packaging).

<b>Raw materials</b>	PE/PP granule
<b>Expansion agent</b>	isobutane /normal butane gas
<b>Foam's characteristic:</b>	non cross-linked, 100% recyclable, flexible, innovative, technical, resistant, high-performance, does not emit toxins, does not cause allergic reactions, practical, universal.
<b>Foam's density:</b>	PE 16 : 40 kg/m <sup>3</sup> PP 30 : 80 kg/m <sup>3</sup>
<b>Foam's widths:</b>	PE 800 : 1600 mm PP 600 : 1200 mm
<b>1 Kg of PE/PP composition:</b>	70 ÷ 95 % raw material of PE / PP, 5 ÷ 30% additives (stabilizers, nucleating, talc, colorants, gas, etc.)
<b>Gas consumption:</b>	8 : 25 Kg/h
<b>Power consumption:</b>	80 Kw/h
<b>Water consumption:</b>	70 liters/month
<b>Max. production capacity</b>	PE 140 kg/h PP 140 kg/h
<b>Approximate production capacity</b>	PE 29.000 m <sup>3</sup> /year PP 18.000 m <sup>3</sup> /year

### 02 GOODS & SERVICES

- FAP offers full extrusion lines, machines for the treatment of granulated blends, extrusion gas controlling unit, gravimetric dosers units, equipment for the treatment of the film and winding units, additional equipment for foam conversion.
- Know-how: FAP provides the specific advanced knowledge of all production processes.
- FAP guarantees post-sale technical support for the successful management and maintenance, rapid supply of spare parts, immediate assistance for any kind of support, concerning production, development of the product scale, etc.
- Warranty for FAP machinery excluding wearing parts is 12 month from the delivery date (to be determined in contract).

## MACHINERY STRUCTURE

<b>01</b>	<b>DOSERS</b> Automatic feeder; High precision gravimetric doser unit with 4 stations; Dosers' support structure.								
<b>02</b>	<b>EXTRUDER's BODY</b> <b>Complete extruder EXT 452 with control tools for temperature and pressure.</b> <table style="width: 100%; border: none;"> <tr> <td style="padding: 2px;">Extruder</td> <td style="padding: 2px;">Twin Screw Extruder 452</td> </tr> <tr> <td style="padding: 2px;">Motor Power</td> <td style="padding: 2px;">Kw 30</td> </tr> <tr> <td style="padding: 2px;">Heating Power</td> <td style="padding: 2px;">Kw 90</td> </tr> <tr> <td style="padding: 2px;">Tot. Installed Power</td> <td style="padding: 2px;">Kw 120 (only Extruder)</td> </tr> </table>	Extruder	Twin Screw Extruder 452	Motor Power	Kw 30	Heating Power	Kw 90	Tot. Installed Power	Kw 120 (only Extruder)
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<b>03</b>	<b>EXTRUSION HEAD</b> <b>Extrusion Head for production of normal thickness foam (0,8:5 mm)</b>  Optional: <b>Pipe Extrusion Head with associated and additional equipment*;</b> (* Water cooling units, Extraction and cutting of tubes; Manual winder for pipes; Extruder with the head for the lamination of the film to the outside of the tubes coverage.)								
<b>04</b>	<b>CALIBRATING UNITS FOR WIDTHS</b>								
<b>05</b>	<b>GROUP FOR SUPPORT, DISTENSION AND COOLING OF FOAM</b>								
<b>05</b>	<b>AUTOMATIC WINDER</b> <b>Two axis winder with automatic cutting and core glue system.</b> Type AVV 17.2 LW <table style="width: 100%; border: none;"> <tr> <td style="padding: 2px;">Width film</td> <td style="padding: 2px;">1650 mm</td> </tr> <tr> <td style="padding: 2px;">Max. Weight</td> <td style="padding: 2px;">40 Kg</td> </tr> <tr> <td style="padding: 2px;">Speed</td> <td style="padding: 2px;">150 mt./minute'</td> </tr> </table>	Width film	1650 mm	Max. Weight	40 Kg	Speed	150 mt./minute'		
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<b>06</b>	<b>HIGH PRESSURE GAS</b>								
<b>07</b>	<b>WATER CHILLER (can be purchased by client)</b>								
<b>08</b>	<b>MACHINERY TO COMPLETE PRODUCTION</b> Cutting On-Line group with blades and aspirators; Laminator ON-LINE; Laminator OFF-LINE; Unwinder for laminator; Laminator for multilayer foam production; Cutting and welding machines for sheets and bags; Cutting machines for plates and angular protection formats; Punch machines and tubular welding.								

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