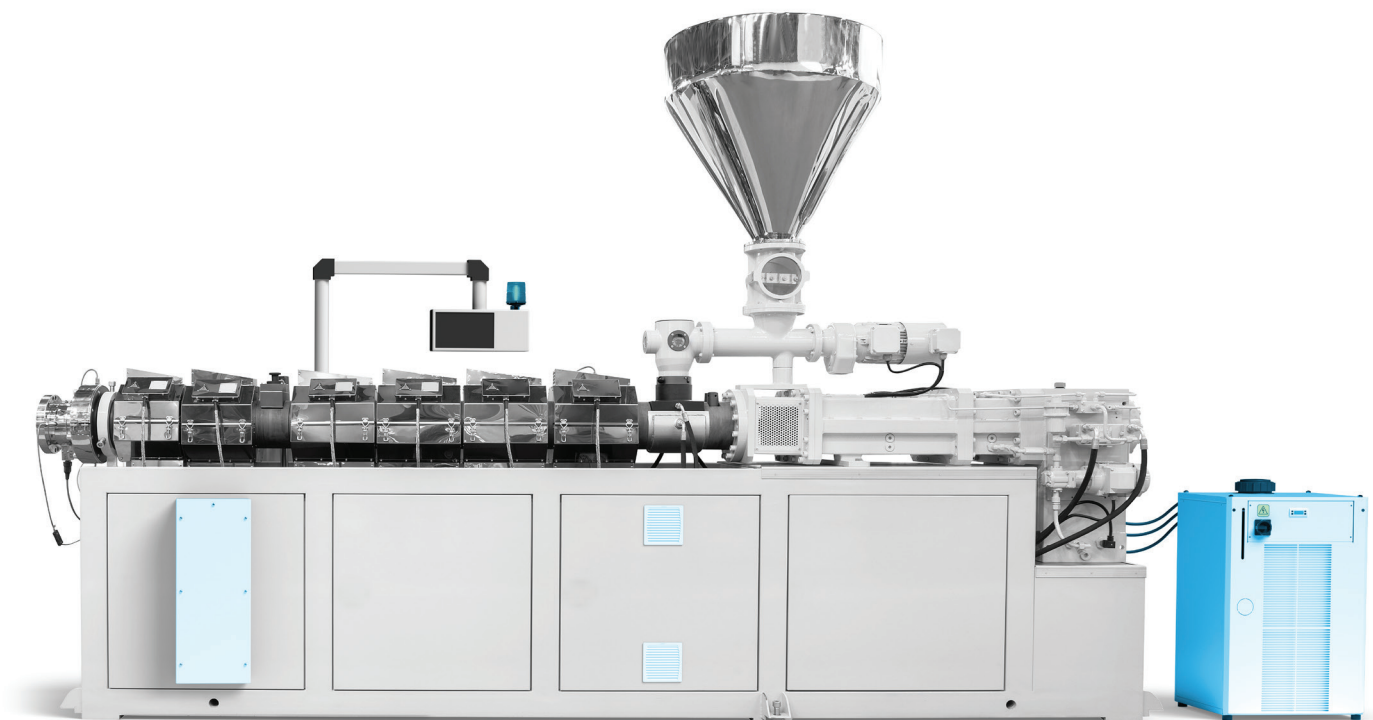


# PERFECT THERMAL SOLUTIONS IN **PLASTIC EXTRUSION** PROCESSES

In extrusion, plastically deformable to viscous masses are continuously pressed out of a shaping opening under pressure. The resulting rather elongated two-dimensional “extrudate” then hardens by cooling or chemical reaction. In the plastics industry, materials such as PVC, PE, PP, PUR, etc. are extruded for a wide variety of applications, e.g. into pipes, films, profiles, sheets, sheathing, seals.

Direct drives or torque motors that are water-cooled or induction motors that are air-cooled are used for extrusion machines. Often a to cool frequency converter is connected upstream of the motors to generate a variable output frequency and voltage as required. In addition to the **machine drives, control & switch cabinets** also require thermal management solution components to ensure that the extrusion processes run smoothly.

Pfannenberg realizes the temperature control required for this, in addition to the use of **filter fans**, by means of **energy-efficient cooling units** or **air/water heat exchangers**. The latter find an ideal field of application in plastics extrusion, as the machines there are already cooled with temperature-controlled water. The main advantage compared to other options is also their maintenance-free operation.



You can find the entire product portfolio on our website: [thermal management](#) and [liquid cooling solutions](#).

# Pfannenberger Solutions

## Why Pfannenberger



### Filterfans

Simple installation  
EMC variants  
High protection class  
Restrained Design

Patented „click and fit“ mechanism without screws  
No interference from electromagnetic waves  
IP55 with fluted filter mat in stressed environment  
Without flashy logo, also in black



### Side and Door Mounted Cooling

Operational Safety  
Easy maintenance  
Outdoor ready  
Flexible Design

Machine downtime is reduced  
No filter exchange, long-term functionality  
Special series with heating and made of stainless steel  
Compact devices for installation in confined spaces,  
Cut-out compatible across many performance classes



### Top Mounted Cooling

100% condensate safety  
Operational Safety  
Space-saving

Due to patented condensate management system  
Cold air reaches the ground safely without aids  
Integration into existing halls & plants



### Heater, Thermo-/Hygrostats and Fans

Operational safety  
Control variants  
High lifetime

Condensate and frost prevention  
Thermostats and hygrostats also as combination  
Avoidance of hotspots by internal fans



### Air/Water Heat Exchangers (Side and Top Mounting)

Cost-saving  
High flexibility  
Hot environment

If water already provided  
Cutouts compatible with the active cooling devices  
Cools independently of the environment



### Chiller

Flexible application  
System solution  
Broad power range

Cools water for machine drives  
Ideal complement to air/water cooling  
From 1.1kW to 150kW

## Service and Contacts



### Global technical Service

24/7 worldwide presence |  
commissioning, repair and  
maintenance | F-GAS leakage tests  
| spare part kits | service trainings |  
PSS - [Pfannenberger Sizing Software](#)



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