

HP Combi

Smart  Flow  Plus 
solutions to meet your needs



PLUG & PLAY

HP Combi: High Performance motor-drive solutions designed for easy set up and increased system efficiency.

HP Combi is a preconfigured motor-drive package that combines a permanent magnet synchronous motor with an optimized Variable Frequency Drive achieving Ultra Premium Efficiency levels.

The motor range leverages both brushless servo motor and AC induction motor technologies, enhancing the power density and allowing for significant size and weight reductions up to 50%.

HPS MOTOR RANGE

- Power rating: 0.37kW to 37kW
0.50HP to 50HP
- Torque: 2 Nm to 190 Nm
- Speed: up to 4500 rpm
- Frame size: 56, 71, 90, 112, 132, 160
- **Design flexibility**
IEC mechanical configurations (B14, B5,...)
- NEMA TC mounting options
- **Ultra Premium Efficiency – IE5**
- Degree of protection IP55 as standard
- Size and weight reduction up to 50%

IE5 IP55 cULus

DRIVE RANGE

- Power rating: 0.37kW to 37kW
0.50HP to 50HP
- **IP66 / NEMA 4X Outdoor**
- **Decentralized drive solution** to be mounted close to the motor
- Conformally coated electronics for harsh environments
- **High Efficiency - IE2**
- **Dedicated PM motor vector control**
- Three drive lines to satisfy any application requirements
- PC tool and mobile app for easy set-up

IE2 IP66

HP Drive
TOOLS

HP Combi

solutions to meet your needs

Smart  Flow  Plus+ 



RANGE OVERVIEW

PRODUCT LINE	FEATURES	THREE-PHASE SUPPLY VOLTAGE	POWER RATINGS	MAIN APPLICATIONS
	<ul style="list-style-type: none"> • Smart configuration suitable for most applications • Industrial, Pump & Fan modes • Constant & Variable Torque 	200-240 V	0.75 to 15 HP	<ul style="list-style-type: none"> • General Industrial • HVAC
		380-480 V	0.75 to 30 HP	
	<ul style="list-style-type: none"> • Dedicated control functions for HVAC • Innovative energy saving features • Flexible functionality • Variable Torque 	200-240 V	0.75 to 30 HP	<ul style="list-style-type: none"> • Advanced HVAC
		380-480 V	0.75 to 50 HP	
		500-600 V	0.75 to 50 HP	
	<ul style="list-style-type: none"> • Advanced configuration • Maximum performance, motor control • Built-in PLC capability • Constant & Variable Torque 	200-240 V	0.75 to 25 HP	<ul style="list-style-type: none"> • Demanding Industrial • Compressors • Vacuum pumps • Material handling
		380-480 V	0.75 to 50 HP	
		500-600 V	0.75 to 50 HP	



INCREASED EFFICIENCY

PM (permanent magnet) Synchronous Motors offer improved electrical

efficiency when compared to traditional AC motors, achieving **up to IE5 efficiency levels**.

PM technology benefits:

HIGH EFFICIENCY ACROSS A WIDE RANGE OF OPERATING SPEEDS

EXCELLENT POWER DENSITY AND TORQUE CAPABILITY



ELECTRONIC SPEED CONTROL

A Variable Frequency Drive (VFD) is used to adjust the speed and torque of the motor

according to the variable demand of an application.

This results in a **significant decrease in energy consumption, improving the overall process efficiency**.

70% of applications are suitable for speed control.

20% SPEED REDUCTION RESULTS IN UP TO 50% ENERGY REDUCTION



SYSTEM OPTIMIZATION

The motor-drive system is **fully dimensioned and configured in**

accordance with the application's needs and the customer's requirements.

This results in a **PLUG & PLAY solution**, with a wide range of optimized motor-drive configurations for **fast set-up and easy commissioning**.

One single source for system components

 **LAFERTGROUP**
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