





SOLUTION OUTLINE

he AGE3 circulator offers operating flexibility and an industry-leading feature set to support a wide range of heating and cooling applications.

Design excellence combined with quality components and manufacturing make this a circulator that provides reliability, energy savings, long service life, low installed cost and low maintenance cost.



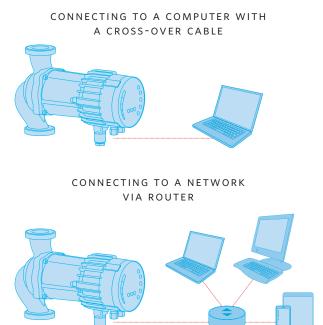
A FULL RANGE OF HIGH EFFICIENCY VARIABLE SPEED CIRCULATORS

The AGE3 is a high-efficiency, glandless wetrotor circulator equipped with ECM technology (electronically commutated, synchronous motor with permanent magnet rotor). Units are available in single head and twin head

versions to serve both heating and cooling applications. The connectivity feature will allow access to the specific data for faster and optimized system setup and trouble shooting.

Reliability	Self-venting function Motor protection with integrated trip electronics Smart duty standby (ensuring even pump run hours)
Low maintenance cost	Maintenance free, replacable BMS I/O module
Low installed cost	Easy installation, intuitive user interface
Versatility	Easy upgrade of existing circulator Six different operating modes Serial communication reference control Analogue reference o-10V, External start/stop Auto mode Proportional pressure and constant pressure
Energy-saving	High-efficiency permanent-magnet motor combined with Advanced variable speed control
Connectivity	Embedded webpage MODBUS RTU Ethernet

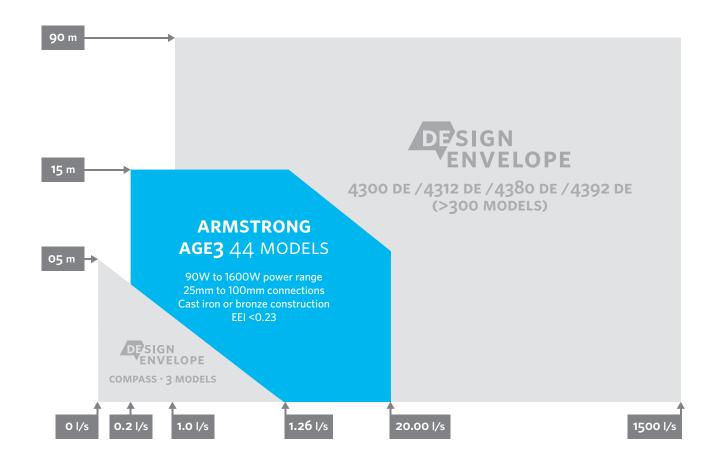
EASY CONNECTIVITY, EASY ACCESS TO DATA



ARMSTRONG EMBEDDED WEBPAGE



AGE3 RANGE WITHIN ARMSTRONG PORTFOLIO



GENERAL HYDRAULIC SPECIFICATION

CHARACTERISTIC		VALUE
Flow rate	Q	Threaded: up to 9m³/h (2.5 l/s) Flanged: up to 72m³/h (20.0 l/s)
Head	Н	Up to 16 m
Fluid temperature	tf	+2°C to +110°C
Ambient temperature	ta	o°C to +40°C
Flanged connection	Р	Flanged connection: 6/10Bar, Threaded connecton: 10Bar

GENERAL MECHANICAL SPECIFICATION

COMPONENT	MATERIAL
Volute casing	Cast iron or bronze (model with Z version)
Shaft	Stainless steel
Impeller	PES
Bearing	Graphite
Can	Stainless steel

GENERAL ELECTRICAL SPECIFICATION

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Power range	90 w to 1600w
Control package	IP44 enclosure
Thermal class	Class F
EMC compliance	EN 61 000-6-3, EN 61 000-6-2
ı/o interface	2 × digital 1/0, 1 × analogue 1/0, 1x Relay
Serial communication	1 × RS485 (modbus RTU) and 1x Ethernet

6 MODES _

Constant-pressure $\triangle p$ or proportional-pressure $\triangle p$ control

Auto Mode with dynamic differential pressure setpoint adjustment

Constant speed control with manual selection

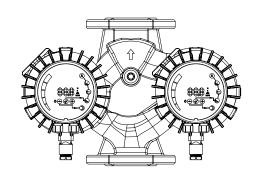
o-10 V external speed control

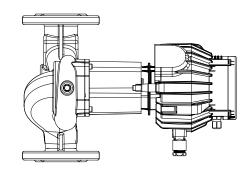
Multiple pump operation (duty/ standby operation with automatic or change-over)

MODBUS or Ethernet speed control

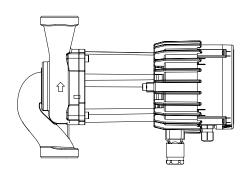


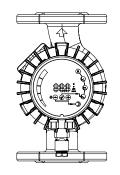
TWIN / SINGLE HEAD

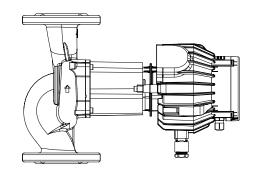




TWIN HEAD CIRCULATOR







SINGLE HEAD CIRCULATOR

SEE SUBMITTALS FOR MODELS SPECIFIC DIMENSIONS





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ARMSTRONG FLUID TECHNOLOGY

ESTABLISHED 1934

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