From waste heat to electricity
with Againity's ORC systems

Same fuel in – more power out!

Againity's ORC systems convert waste heat from gas turbines to electric power.

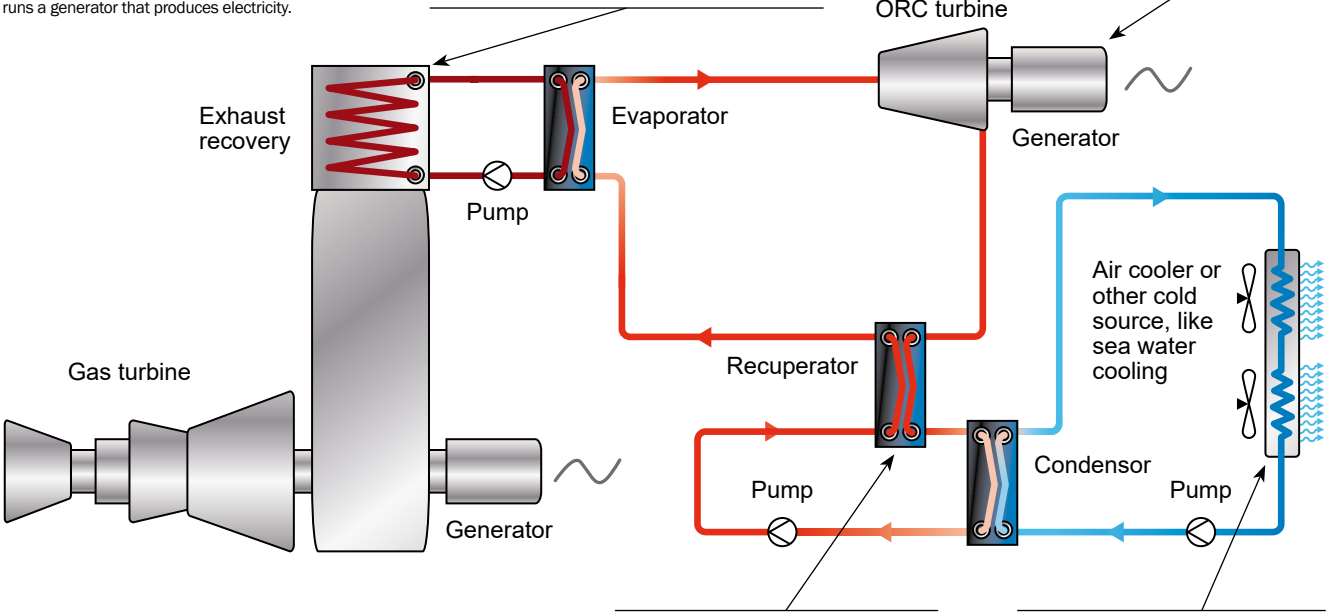
From waste heat to electricity

When producing electricity from gas turbines, 65-75% of the fuel energy is often wasted as excess heat by the exhaust gas. The temperature of the exhaust gas is normally 350-550°C, which makes it an excellent source of energy for Againity's ORC[1] system and facilitates a highly efficient and cost-effective conversion to electric power.

The Againity ORC System is based on the technology of the Organic Rankine Cycle (ORC). The core of the technology is a steam turbine set in motion by the pressure of hot steam. The rotating turbine then runs a generator that produces electricity.

The Againity ORC System uses thermal oil between the exhaust and the ORC unit, which prevents exposure of the working medium to the hot gases. The installation is simple and compact – no need of bypass of exhaust gases.

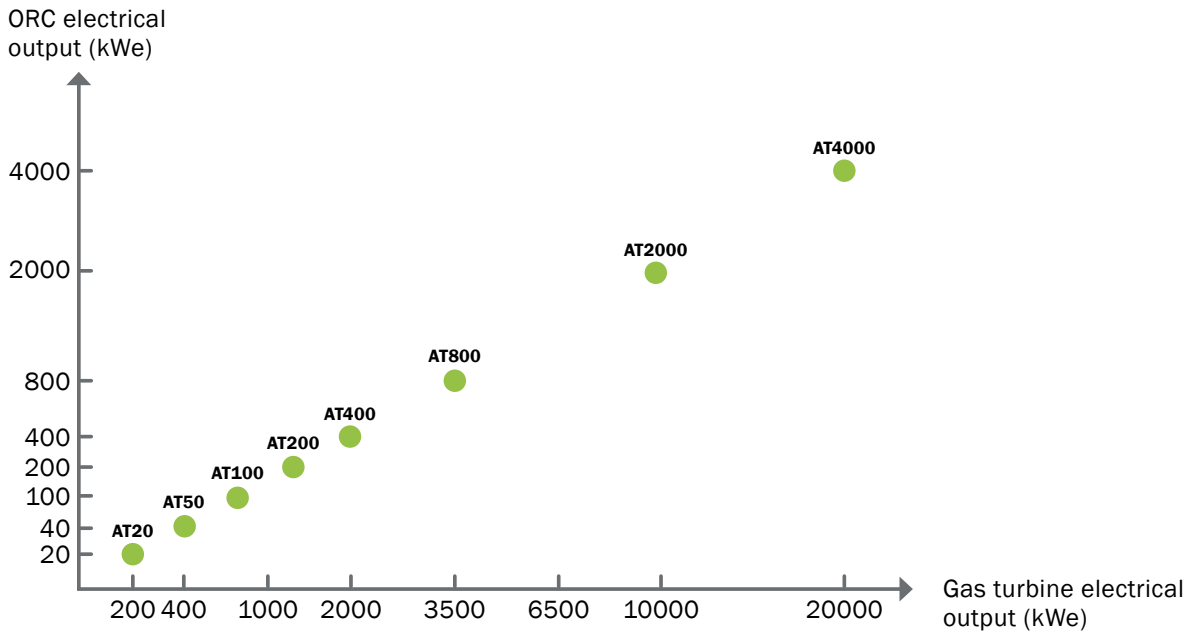
Againity's ORC turbine is a very compact unit with few moving parts. This gives a reliable turbine with a long life.



The Againity ORC System is always built with a recuperator that offers high performance yet a compact and economic installation.

The most economical way to cool the system is by using water from a nearby river or sea. When not available, air coolers are used.

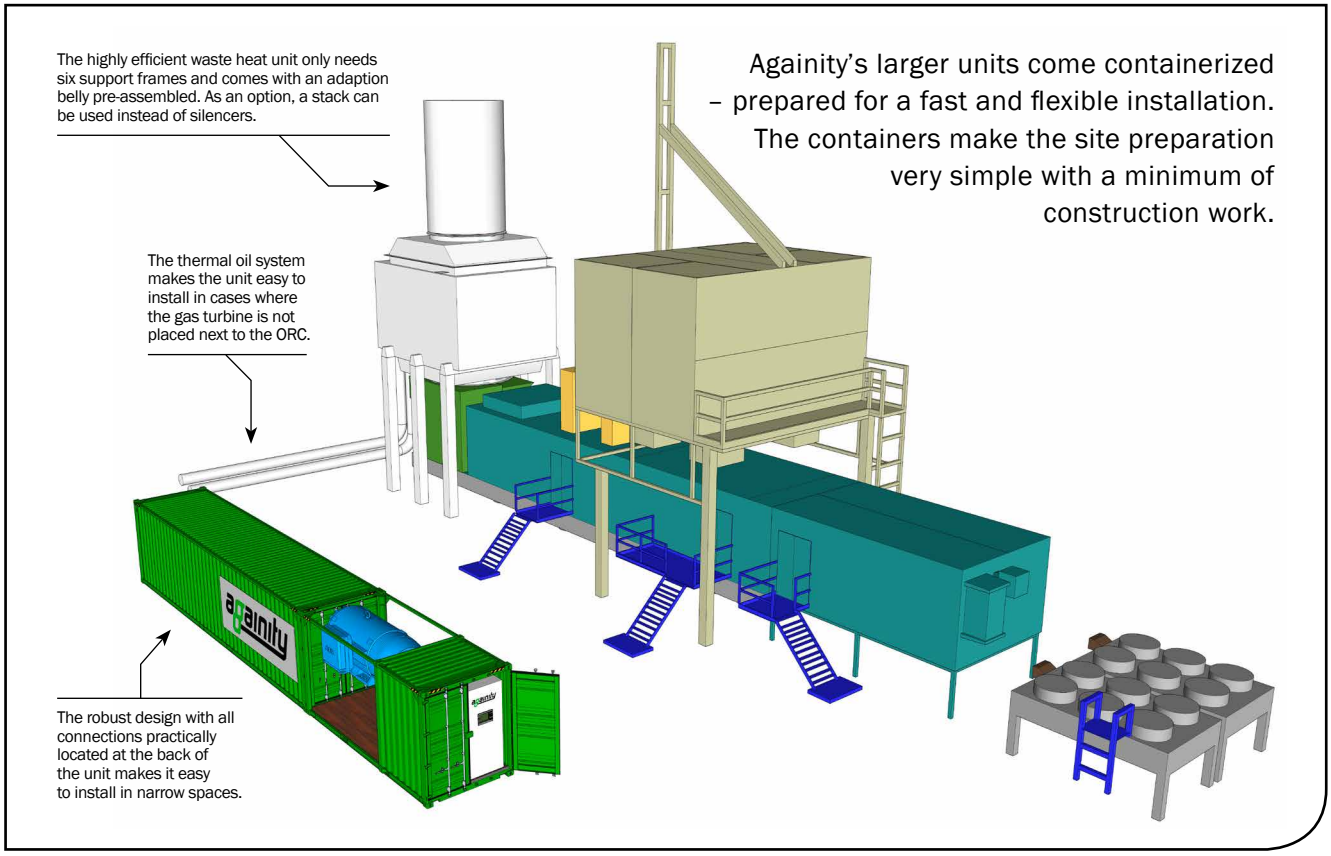
ORC models



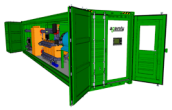
Againity offers systems covering a wide power range. All systems are built in the same compact way with a high degree of pre-assembly and flexibility, implying economic installations all the way from the micro scale up to industrial turbines.

[1] *Organic Rankine Cycle*

Site layout



Connection data

	AT20	AT50	AT100	AT200	AT400	AT1000	AT2500
							
Installed capacity	20 kW	50 kW	100 kW	200 kW	400 kW	1000 kW	2500 kW
Size (L*W*H)	2500* 1140* 2000 mm	2500* 1140* 2000 mm	3250*2000* 2150 mm	6058*2438* 2896 mm 20 ft standard high cube container	6058*2438* 2896 mm 20 ft standard high cube container	12116*2438* 2896 mm 40 ft standard high cube container	18174*2438*2896 mm 40 ft + 20 ft standard high cube container
Freq.	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Voltage[2]	380-415V	380-415V	380-415V	380-415V	380-415V	3000-6000V	3000-6000V

[2] *Other voltages on request*

Againity is all about turning waste heat into something useful – electric power! It's about getting more power out of your existing system. This gives you a more energy efficient production, more performance and less cost – while saving the environment.

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