



engineered. cool.
TACcontrols by Flexxaire

TACcontrols for precision cooling

Total Airflow Control is the key to Flexxaire's cooling solutions. TACcontrols are engineered to provide infinitely variable pitch. Fan blades move between 0° and 40° based on inputs from a control system that is continuously monitoring engine fluid temperatures. This precision cooling means engines increase power outputs while saving money on fuel costs and reducing emissions. And yes TACfan systems easily reverse to clean radiators.



FLEXXAIRE

Robust Intelligence | Engine Cooling Systems

Infinitely Variable Pitch Control

TAC IVP

- Provides TACfan blades full range of motion between default and reverse blade pitch
- The TAC IVP Control connects to the engine control unit and monitors fluid temperatures
- The blades move to the position they need to in order to provide optimal airflow
- Intelligent airflow adjustment increases available engine power and reduces fuel consumption
- All of the features of the 2P system are included

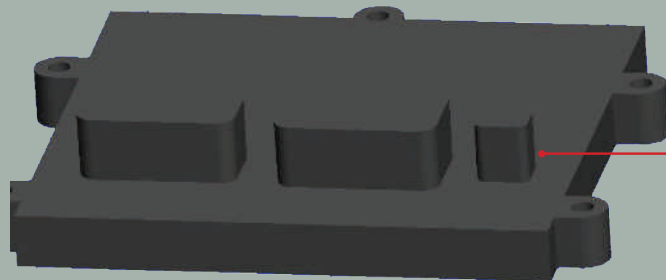
→ Pressure
→ Electric

Pressure Source

- Hydraulic or pneumatic options
- Flexxaire fans use on-board hydraulic or pneumatic systems or our own heavy-duty pneumatic compressor (shown here)
- See Flexxaire's TACfan data sheet for information on pressure ranges

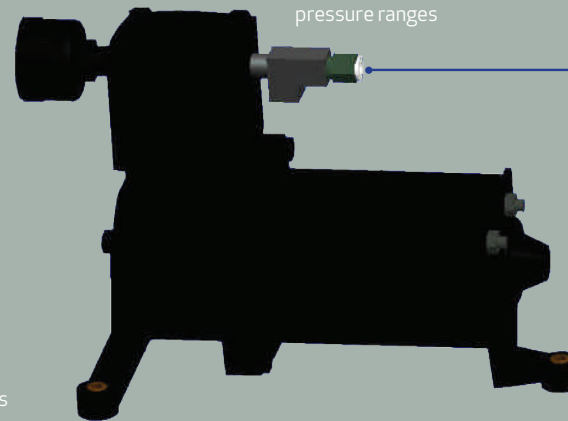
Engine Control Unit

- The "brains" of a modern engine
- Flexxaire's IVP Control connects to the ECU and monitors engine temperature data



IVP Control

- Engine temperature data is broadcast on the J1939 machine network and the IVP Control adjusts the fan blade pitch to increase or decrease airflow
- Flexxaire uses trusted Plus+1™* hardware and proprietary software to provide infinitely variable pitch
- 14 inputs, 4 outputs (digital and analogue), voltage independent
- Flexxaire engineers often work with clients to program their own controllers if a different platform is preferred



IVP Valve Assembly

- Allows for infinite adjustment of Flexxaire fan blades by adding and removing pressure to the fan assembly
- 2, 2-way solenoid valves mounted onto a manifold
- Available in 12 or 24 V

→ To fan

Optional Purge Switch

- Although an automatic purge cycle is built-in to the IVP Control, a switch is often mounted in the cab of machines to allow the operator to manually reverse the fan blades and purge debris from the radiator at their discretion

*Plus+1 is a registered trademark of Sauer Danfoss

2 Position Control

Flexxaire's elegant TACcontrols are designed to be configured for most heavy equipment diesel engines and to suit a variety of needs.

The more sophisticated TAC IVP control optimizes TACfans allowing for infinitely variable pitch and precision cooling.

The TAC 2P control is a simpler two position system that allows TACfans to easily purge debris from the radiator.

TAC 2P

- Allows TACfan blades to reverse direction and purge debris from the radiator
- Available in both Pusher and Puller default configurations
- Programmed to automatically purge at regular intervals
- Optional purge switch allows for manual purging

