



OPERATION - BOOSTFLO TYPE E

The system pressure is maintained within close limits, around the system set-point, whilst the duty pump speed modulates to suit variations in the system flow requirements. Increased system demand will start a second, third or fourth fixed speed pump(s) when sized for support operation.

WARNING !

ONLY SUITABLY QUALIFIED PERSONNEL SHOULD INSTALL OR MAINTAIN THE INVERTER CONTROL PANEL.

The components of the power unit of the frequency converter are live when connected to the mains. Coming into contact is extremely dangerous and may cause death or severe injury.

REFER TO THE FREQUENCY CONVERTER MANUAL BEFORE INSTALLATION AND OPERATION.

START-UP DATA GROUP

This is factory set to suit the Boostflo unit supplied. It should not be altered without consulting Fluid Automation.

SET-POINT PARAMETER

The set-point is factory set to the design set-point pressure given by the customer. Whilst the set-point can be altered by an experienced operator at the converter control panel it is advisable to seek advice from Fluid Automation on this, since it may be necessary to alter other set items on the unit.

AUTO-CHANGE-OVER INTERVAL

Auto-sequence control shares the duty pump running times. The change-over time interval is factory set at 50 hours, this can be altered by an experienced operator at the converter control panel.

IMPORTANT

Whilst other converter Parameters are factory set under test conditions, it may sometimes be necessary to fine-tune under site operating conditions. It is important that the system is fully complete and operating under final conditions to ensure that fine-tuning is effective. It is recommended that the Boostflo E is commissioned under final operating conditions.

ROTATION

Rotation of each pumpset should be checked under Test and Auto Switch positions. See below -

SWITCH POSITION		ACTION (DOL)
TEST	AUTO	
CORRECT	CORRECT	NO ACTION
CORRECT	INCORRECT	INTERCHANGE ANY TWO MOTOR CABLES AT INVERTER - U2 V2 W2
INCORRECT	CORRECT	INTERCHANGE ANY TWO MOTOR CABLES AT MOTOR TERMINALS

FAULT TRACING - DRIVE

When a fault is dedected by the frequency converter control electronics, the Drive is stopped and a fault code displayed.

The fault can be reset with the Reset Button on the control keypad or by turning the power supply off for around 10 seconds.

The faults are stored in the fault history menu which can be browsed. Refer to the Drive user manual for fault codes, their causes and corrective action.

MAINTENANCE

WARNING ! Read the Drive manufactures Safety instructions before performing any maintenance procedures on the Drive.

If installed in an appropriate environment, the frequency converter Drive requires very little maintenance. Refer to the Drive user manual for any routine maintenance intervals recommended by the Drive manufacturer.

When cooling fans are fitted to the control panel they include a filter element behind the air intake louvres. The filter elements should be checked for dirt and cleaned periodically, depending on the dustiness of the environment, but a least every 3 months.

For Boostflo maintenance also refer to OM007-001.