PRODUCT DATA SHEET

pH Adjustment - Flow (PAF)

water | wastewater | sewage

mak water

OVERVIEW

MAK Water's pH Adjustment - Flow (PAF) plants are designed to automatically adjust and maintain the pH level of pressurised raw water prior to discharge to sewer/environment or reuse/recycling. The standard treatment process includes an inline pH analyser which monitors the pH level and a dosing pump to automatically dose liquid alkali/acid. Dual chemical dosing pumps (alkali/acid) are available for when the raw water pH varies to allow for correction of both low and high pH raw water.

The system components are sized to suit the raw water flow rate and daily usage. Optional equipment upgrades include; a flow transmitter, a static mixer if required to improve mixing, duty standby dosing pumps, dual chemical dosing pumps (alkali/acid). MAK PAF plants are available as skid mounted or containerised systems for easy deployment to remote locations.
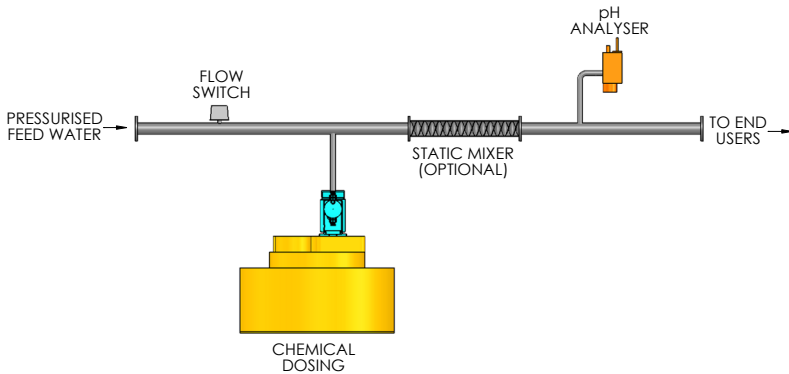
STANDARD SPECIFICATIONS

Parameter	Units	PAF-60	PAF-100	PAF-200	PAF-500	PAF-1000	PAF-2500	PAF-5000
Chemical Storage Tank Size	L	60	100	200	500	1,000	2,500	5,000
pH Level (target)	pH	6 ~ 8 (pH neutral) or as required						
Raw Water Temperature	°C	15 ~ 35						
Ambient Design Temperature	°C	5 ~ 45 (-5 ~ 50 for insulated containerised system)						
Raw Water Flow Rate (max)	m³/hr	1,000 (higher flow available on request)						
Raw Water Pressure (max)	kPa	600 (higher pressure available on request)						
Power Supply	-	AC 240V, 1 phase, 50Hz						
Power Consumption (approx.)	kW	0.5						
Container Size (optional)	ft	10	10	10	10	10	20	20
Slid Size	mm	1,300 x 600 x 1,500				2,000 x 1,500 x 1,500		

STANDARD INCLUSIONS + OPTIONS

✓ = Standard Supply   o = Optional Supply   - = Not Applicable

Equipment	PAF-60	PAF-100	PAF-200	PAF-500	PAF-1000	PAF-2500	PAF-5000
Skid Mounted Plant	✓	✓	✓	✓	✓	✓	✓
Chemical Dosing Pump	✓	✓	✓	✓	✓	✓	✓
Bunded Chemical Storage Tank	✓	✓	✓	✓	✓	✓	✓
pH Analyser	✓	✓	✓	✓	✓	✓	✓
Control System with Local Indicator (standard)	✓	✓	✓	✓	✓	✓	✓
Containerised System c/w A/C & Lights	o	o	o	o	o	o	o
Container Non-slip Floor Coating	–	–	–	–	–	o	o
Container Insulation (walls & ceiling)	o	o	o	o	o	o	o
Container Side Access Door	–	–	–	–	–	o	o
Duty Standby Dosing Pumps	o	o	o	o	o	o	o
Static Mixer	o	o	o	o	o	o	o
Dual Chemical Dosing (acid & alkali)	o	o	o	o	o	o	o
Safety Shower & Eyewash Station	o	o	o	o	o	o	o
PLC Control System with HMI	o	o	o	o	o	o	o
Alarm Signal Output for Client Interface	o	o	o	o	o	o	o
Premium Instrumentation Package	o	o	o	o	o	o	o

Instrumentation	Standard Package	Premium Package
Flow Switch	✓	✓
Float Switch (chemical storage tank)	✓	✓
Level Transmitter (4-20 mA, chemical storage tank)	–	✓
pH Analyser (4-20mA)	✓	✓
Flow Transmitter	o	o
Temperature Sensor & Alarm	o	o
Data Logger (pH level)	–	✓
Remote Monitoring & Control Capabilities	–	✓

MODEL SELECTION

0060	60 L - Chemical storage tank size
0100	100 L - Chemical storage tank size
0200	200 L - Chemical storage tank size
0500	500 L - Chemical storage tank size
1000	1,000 L - Chemical storage tank size
2500	2,500 L - Chemical storage tank size
5000	5,000 L - Chemical storage tank size
XXXX	Custom tank (please nominate size)

XX	Skid mounted
CX	Containerised - standard
CF	Containerised - with floor coatings
CP	Containerised - with floor coatings & insulation

X	Dosing pump - standard, single duty
O	Dosing pump - duty standby

X	Chemical dosing - standard, single
O	Chemical dosing - dual, acid & alkali

X	Standard control system
P	PLC control system with HMI
C	Custom control system

X	Standard instrument package
P	Premium instrument package, c/w remote monitoring
C	Custom instrument package

PAF _ _ _ _ _ _ _ _ _ _

makwater.com.au   📞 1300 669 032   Clearmake® a mak water company