

70Xe

S E R I E S

Combination Flow Properties Analyzer

Models – PSA, PCA, PFA, FCA, FPA, CPA, PPA



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1. SYSTEM DESCRIPTION

The World's First Integrated Analyzer Platform for Jet Fuel and Diesels Testing

Laboratories are being asked to support a broader range of fuels, tighter timelines, and evolving standards, while maintaining efficiency and uptime. Building on the proven foundation of the 70Xi, the 70Xe Series meets these demands with expanded capability, greater flexibility, and a next-generation platform built for the future of fuel testing.

The 70Xe Series Analyzers represent the next evolution in fuel property testing. Designed to consolidate critical flow and cold property measurements into a single, integrated platform, the 70Xe enables faster testing, higher precision, and more efficient use of laboratory space. From conventional fuels to next-generation renewable and sustainable fuels, the 70Xe platform is built to meet today's and tomorrow's testing demands.

The 70Xe lineup expands with two new models, IFA-70Xe and KVD-70Xe, now offered alongside nine existing configurations to meet real laboratory needs:

Included Functions	NEW MODEL			NEW MODEL		Supported Test Methods
	IFA-70Xe	JFA-70Xe		DFA-70Xe	KVD-70Xe	
Freeze Point	✓	✓	—	—	—	ASTM D5972, IP 435, SH/T 0770-2005
Cloud Point	✓	—	✓	—	—	ASTM D5773, IP 446
Pour Point	✓	—	✓	—	—	ASTM D5949, SH/T 0771-2005
Viscosity @ -20°C & -40°C	✓	✓	—	✓	✓	ASTM D7945
Viscosity @ 40°C	✓	—	✓	✓	✓	ASTM D7945, IP 641, ISO 18335
Density	✓	✓	✓	✓	✓	ASTM D7777
Renewable Diesel (HVO)	✓	—	✓	✓	✓	—
Sustainable Aviation Fuel (SAF)	✓	✓	—	✓	✓	—
Sample Introduction	Automatic Single Injection					—
Optional	30-position Autosampler					—

Included Functions	PSA-70Xe	PCA-70Xe	PFA-70Xe	FCA-70Xe	PPA-70Xe	CPA-70Xe	FPA-70Xe	Supported Test Methods
Freeze Point	✓	—	✓	✓	—	—	✓	ASTM D5972, IP 435, SH/T 0770-2005, ISO 18335
Cloud Point	✓	✓	—	✓	—	✓	—	ASTM D5773, IP 446, SH/T 0771-2005
Pour Point	✓	✓	✓	—	✓	—	—	ASTM D5949
Sample Introduction	Manual Pipette							—
Optional	Automatic Loading with Single Injection or 30-position Autosampler (Fuels Only)							—
Add-on Functions	Engine Coolants (Antifreeze), Pour Point Black Oil, Pour Point Crude Oil, Phase Temperature Control Software (PTCS)							—

Key User Benefits

Multiple Property Analysis with One Instrument

- Critical flow properties for jet fuels and diesels in one instrument:
 - Jet Fuels: Freezing Point, Viscosity @ -20°C & -40°C, Density
 - Diesels: Cloud Point, Pour Point, Viscosity @ 40°C, Density
- Completely flexible model configuration from single function to 6-in-1 combination, and from manual pipette to single-shot to full 30-position autosampler
- Self-cleaning, no solvent required for auto-loading models

Unequaled Performance in Precision and Speed

- Industry accepted proprietary automatic test methods allowing short test times and highly precise results
- Simultaneous testing of multiple properties in one test significantly reduces test time:
 - Jet Fuel: FP + KV@-20°C + Density = ~15 mins
 - Diesel: CP + PP + KV@+40°C + Density = ~30 mins
- Referee freezing point method of co-processed HEFA SAF

New Models and Capabilities

- New models include:
 - IFA-70Xe: all-in-one for both jet fuels and diesels
 - KVD-70Xe: viscosity & density only for jet fuels and diesels
- New cooling system extending low temperature limit to -100°C and below
- New 30-position autosampler specially designed to minimize bench space requirements

Unbeatable Uptime & Reliability

- New modular design for enhanced serviceability
- Onsite calibration feature enabling easier servicing and maintenance
- Self-diagnostics including system check and leak tests
- Compatible with PACe for lab monitoring.

The following content in this technical offer is specifically for the following instrument models:

Included Functions	PSA-70Xe	PCA-70Xe	PFA-70Xe	FCA-70Xe	PPA-70Xe	CPA-70Xe	FPA-70Xe
Freeze Point	✓	—	✓	✓	—	—	✓
Cloud Point	✓	✓	—	✓	—	✓	—
Pour Point	✓	✓	✓	—	✓	—	—
Sample Introduction	Manual Pipette						
Optional	Automatic Loading with Single Injection or 30-position Autosampler (Fuels Only)						
Add-on Functions	Engine Coolants (Antifreeze), Pour Point Black Oil, Pour Point Crude Oil, Phase Temperature Control Software (PTCS)						

For other models, please refer to their technical offer.

2. TECHNICAL REQUIREMENTS & SPECIFICATIONS

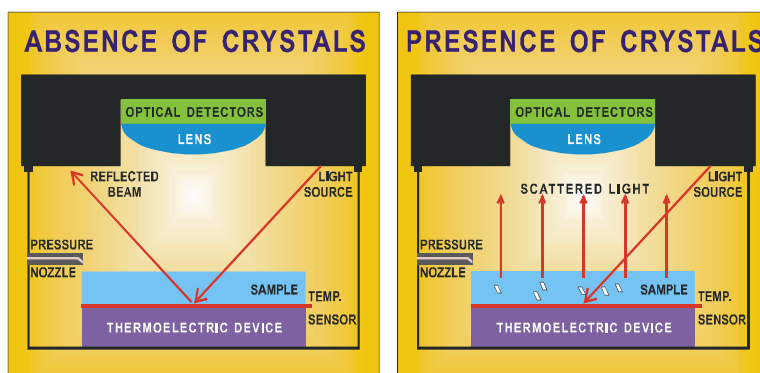
Test Methods

Freeze Point	ASTM D5972 / IP 435 / SH/T 0770 compliant ASTM D2386 / IP 16 / ISO 3013 equivalent
Cloud Point	ASTM D5773 / IP 446 compliant ASTM D2500 / IP 219 / ISO 3015 equivalent
Pour Point	ASTM D5949 / SH/T 0771 / ISO/TS 23877-2 compliant ASTM D97 / IP 15 / ISO 3016 equivalent

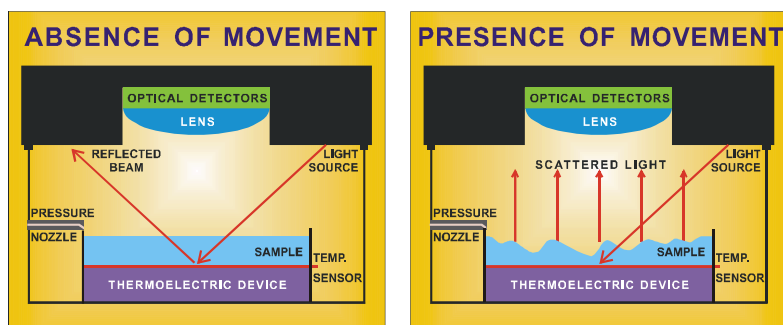
Operation

Analytical principle

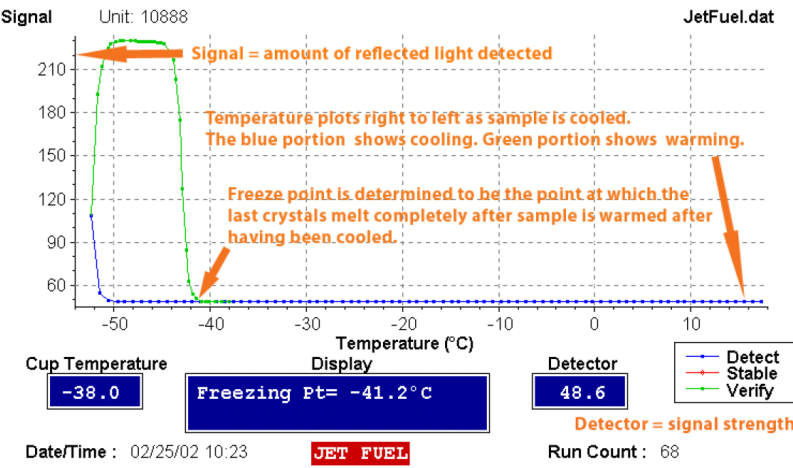
Freezing point and cloud point are detected using diffusive light scattering technology through an optical system:



Pour point is detected by applying a pulse of compressed gas onto the sample surface. The disturbances in the sample are then captured by the optical sensors:



At the conclusion of each test, the phase plot will be displayed and saved to show the sample behavior throughout the test. The following is an example freezing point phase plot:

	Signal Unit: 10888 JetFuel.dat 
Cooling System	Integrated Peltier device cooling system; no external cooling bath needed
User interface	Large 13.3" full-color, touch-sensitive, high resolution LCD touch screen
Operator Time	< 1 minute

Detection Technology

Cold Properties	Patented Diffusive Light Scattering (DLS)
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Sample Temperature Range

Manual Injection	-100 °C to +70 °C
Auto Loading	-100 °C to +70 °C

Sample Volume

Manual Injection	0.15 mL
Auto Loading	30 mL (0.15 mL is used for cold properties test)

System Cleaning

Manual Injection	Manual cleaning
Auto Loading	Automatic flush cycle; no solvent required

Test Duration

Freezing Point	As fast as 10 minutes
Cloud Point	As fast as 5 minutes
Pour Point	As fast as 20 minutes

Interface Specifications

Display	Full-color, touch-sensitive, 13.3" high resolution LCD touch screen
Outputs	3 x USB-A port for peripherals: flash drive, printer, barcode scanner 1 x Autosampler port for power & communication 1 x RJ45 Ethernet port for network 1 x RS-232 serial port for LIMS output

Environmental Conditions

Operating temperature	10 °C to 30 °C (50 °F to 86 °F) ; recommended 15 °C to 25 °C (59 °F to 77 °F);
Humidity	Relative humidity up to 80% at 35°C (95°F)
Altitude	Atmospheric pressure: Constant
Storage temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Storage Humidity	Less than 95%RH (no condensation)

Power Requirements

Voltage	Mains Voltage: 100-240 V +/- 10% switchable
Frequency	50-60 Hz
Power	450 W

Physical Specs

Dimensions (HDW)	380 mm (W) X 600 mm (D) X 500 mm (H) With Single-Shot Injection: 450 mm (W) X 600 mm (D) X 500 mm (H) With Autosampler: 560 mm (W) X 600 mm (D) X 500 mm (H)
Weight	39 kg (85 lbs) Autosampler: 10.5 kg (23 lbs)

3. SYSTEM CONFIGURATION

Ordering No.	Description	
PSA-70Xe or PCA-70Xe or PFA-70Xe or FCA-70Xe or FPA-70Xe or CPA-70Xe or PPA-70Xe	PSA-70Xe: freezing point, cloud point, pour point analyzer PCA-70Xe: cloud point, pour point analyzer PFA-70Xe: freezing point, pour point analyzer FCA-70Xe: freezing point, cloud point analyzer FPA-70Xe: freezing point analyzer CPA-70Xe: cloud point analyzer PPA-70Xe: pour point analyzer --- Sample Introduction: Manual Pipette Sample Types: Fuels, Base Oils, Finished Lubricants --- Accessories included:	
	000-50-0608	Power Cord
	*See DRD-601P DRD-605P DRD-610P to reorder	Dryer desiccant (single pack) for analyzer purging system
	*See DRP-06C to reorder	[For models with Freezing Point] Sample dryer sacs (30 sacs) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.
	*See COTSWAB to reorder	Cotton Swabs (quantity 400)
	PPP-150M	Pipette, Positive Piston, 150ul
	*See PTIP-150M5 PTIP-150MD to reorder	Gilson CP-250 capillaries & pistons (box/96)
		Quick Start Guide
		Calibration Certificate
		1 Year warranty



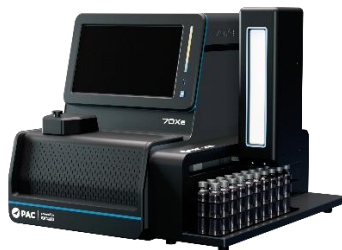


PSA-70Xe-SS or PCA-70Xe-SS or PFA-70Xe-SS or FCA-70Xe-SS or FPA-70Xe-SS or CPA-70Xe-SS or PPA-70Xe-SS	PSA-70Xe-SS: freezing point, cloud point, pour point analyzer, with single shot injection port	
	PCA-70Xe-SS: cloud point, pour point analyzer, with single shot injection port	
	PFA-70Xe-SS: freezing point, pour point analyzer, with single shot injection port	
	FCA-70Xe-SS: freezing point, cloud point analyzer, with single shot injection port	
	FPA-70Xe-SS: freezing point analyzer, with single shot injection port	
	CPA-70Xe-SS: cloud point analyzer, with single shot injection port	
	PPA-70Xe-SS: pour point analyzer, with single shot injection port	

	Sample Introduction: Single Shot Injection (Auto Loading)	
	Sample Types: Fuels Only	

Accessories included:		
000-50-0608	Power Cord	
*See DRD-601P DRD-605P DRD-610P to reorder	Dryer desiccant (single pack) for analyzer purging system	
*See DRP-06C to reorder	[For models with Freezing Point] Sample dryer sacs (30 sacs) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.	
000-05-0217	Waste Bottle	
*See APX48-30G JFA-30G to reorder	Vial, Clear S/C Dram, 22-400 Thread 25 x 95mm (Quantity: 5)	
	Quick Start Guide	
	Calibration Certificate	
	1 Year warranty	



PSA-70Xe-AS or PCA-70Xe-AS or PFA-70Xe-AS or FCA-70Xe-AS or FPA-70Xe-AS or CPA-70Xe-AS or PPA-70Xe-AS	PSA-70Xe-AS: freezing point, cloud point, pour point analyzer, with 30-position autosampler PCA-70Xe-AS: cloud point, pour point analyzer, with 30-position autosampler PFA-70Xe-AS: freezing point, pour point analyzer, with 30-position autosampler FCA-70Xe-AS: freezing point, cloud point analyzer, with 30-position autosampler FPA-70Xe-AS: freezing point analyzer, with 30-position autosampler CPA-70Xe-AS: cloud point analyzer, with 30-position autosampler PPA-70Xe-AS: pour point analyzer, with 30-position autosampler --- Sample Introduction: 30-position Autosampler (Auto Loading) Sample Types: Fuels Only --- Accessories included:	
	000-50-0608	Power Cord
	*See DRD-601P DRD-605P DRD-610P to reorder	Dryer desiccant (single pack) for analyzer purging system
	*See DRP-06C to reorder	[For models with Freezing Point] Sample dryer sacs (30 sacs) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.
	000-05-0217	Waste Bottle
	000-50-6010	70Xe - Autosampler Power/Communication Cable
		Quick Start Guide
		Calibration Certificate
		1 Year warranty
		

4. ADD-ONS AND OPTIONS

Ordering No.	Description	
CRUDEOIL	[For manual pipette models] Pour point crude oil option	
BLACKOIL	[For manual pipette models] Pour point black oil option	
BLKCRUDE	[For manual pipette models] Combination of black oil and crude oil pour point option	
AF-70X	[For manual pipette models] Antifreeze function	
TCS-70X	Phase Behavior Analysis Software for customized algorithm research	
LLP-70A	Label printer for 70Xi/70Xe series analyzers	
LABEL-SL	70Xi/70Xe series label printer labels (paper labels, size 1 1/8"x 3 1/2", 2 rolls/box)	
BSC-70X	Barcode reader to enter sample number	
1200-009-000	USB Color Printer	

5. SOFTWARE

PACe

Ordering No.	Description
108832	PACe – Digital Ecosystem, Base Version 1 year subscription
108832-2	PACe – Digital Ecosystem, Upgrade Instrument Insights 1 year subscription
INSTALL-PACe	Installation and setup of PACe
	Options & Accessories
108840	PACe Installation Kit A No IRIS - US - 1 Gateway up to 5 Instruments
108841	PACe Installation Kit B No IRIS - US - 2 Gateways up to 10 Instruments
108842	PACe Installation Kit C No IRIS - US - 3 Gateways up to 15 Instruments
108843	PACe Installation Kit AE No IRIS - EU, EMEA, APAC, SA - 1 Gateway up to 5 Instruments
108844	PACe Installation Kit BE No IRIS - EU, EMEA, APAC, SA - 2 Gateways up to 10 Instruments
108845	PACe Installation Kit CE No IRIS - EU, EMEA, APAC, SA - 3 Gateways up to 15 Instruments
108846	PACe Installation Kit D - With IRIS - US
108847	PACe Installation Kit E - With IRIS - EU, EMEA, APAC, SA

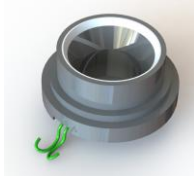
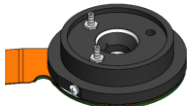
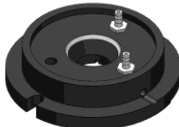
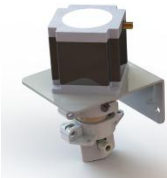
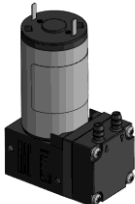
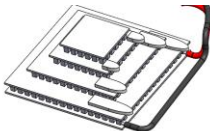
6. CONSUMABLE PARTS

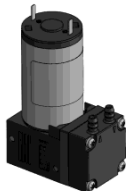
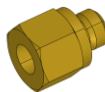
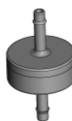
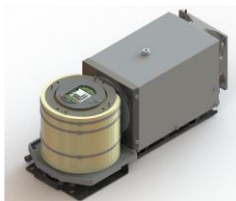
Ordering No.°	Description	Image
JFA-30G	[For models with single-shot option] 30 mL glass vials. Quantity: 507	
APX48-30V	[For models with autosampler option] 30 mL glass vial with cap and dual-layer septum. Quantity: 1,014.	
APX48-30G	[For models with single-shot and autosampler option] 30 mL glass vials. Quantity: 1,014.	
APX48-30C	[For models with autosampler option] Caps for 30 mL vials. Quantity: 1,000 each.	
APX48-30S	[For models with autosampler option] Dual-layer septa for 30 mL vials. Quantity: 1,000.	
APX48-30CS	[For models with autosampler option] Caps and dual-layer septa for 30 mL vials. Quantity: 1,000 each.	
DRD-601P	Dryer desiccant (single pack) for analyzer purging system.	
DRD-605P	Dryer desiccant (5-pack) and one dust filter ring for analyzer purging system.	
DRD-610P	Dryer desiccant (10-pack) and two dust filter rings for analyzer purging system.	
DRP-06C	[For models with Freezing Point] Sample dryer sacs (600 sacs/can) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.	
PFILM-70Xe	Screen protector for 70Xe Series touch screen (in package of 5)	
LABEL-SL	70Xi/70Xe series label printer labels (paper labels, size 1 1/8"x 3 1/2", 2 rolls/box)	
LABEL-SL5	70Xi/70Xe series label printer labels (paper labels, size 1 1/8"x 3 1/2", 2 rolls/box, 5 boxes)	
COTSWAB	[For manual pipette models] Swabs, Cotton, Package of 4,000	

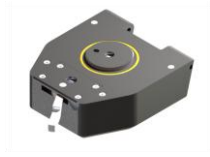
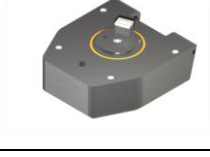
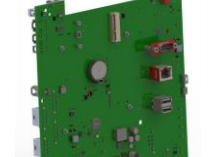
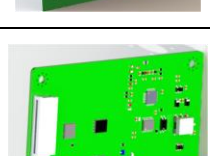
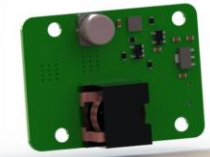
Ordering No.°	Description	Image
PTIP-150M5	[For manual pipette models] Pipette Tips, for PPP-150M Pipette, Package of 960	
PTIP-150MD	[For manual pipette models] Pipette Tips, PPP-150M, Package of 1,920	

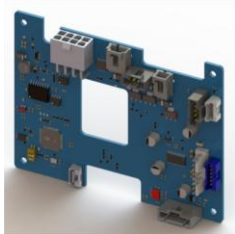
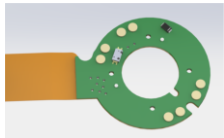
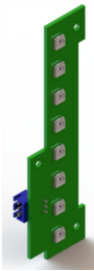
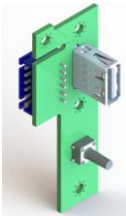
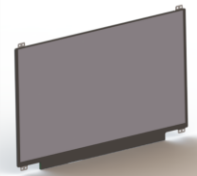
7. SPARE PARTS

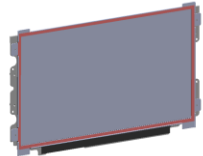
Ordering No.°	Description	Image
000-05-0217	[For models with single-shot or autosampler option] Waste Bottle for 70Xi/70Xe Auto Load Models	
000-05-1042	Dryer Bottle Tubing Replacement Kit (Cs)	
101-02-6745	Dryer Bottle O-Ring Replacement Kit	
000-05-0445	Dryer Bottle Assembly	
101-02-6714	Lid O-Ring Replacement Kit	
000-05-6039	[For models with autosampler option] 70Xe - Autosampler Vial Rack A (Blue)	
000-05-6040	[For models with autosampler option] 70Xe - Autosampler Vial Rack B (Black)	
000-05-6041	[For models with autosampler option] 70Xe - Autosampler Vial Rack C (Purple)	
000-05-7141	[For manual pipette models] 70Xe - Manual Sample Cup Replacement Kit (for Field Service)	

000-05-7142	[For manual pipette models] 70Xe - Manual Sample Cup Replacement Kit (for Depot Service)	
000-05-7143	[For models with single-shot or autosampler option] 70Xe - Auto Load Sample Cup Replacement Kit (for Field Service)	
000-05-7144	[For models with single-shot or autosampler option] 70Xe - Auto Load Sample Cup Replacement Kit (for Depot Service)	
000-43-7642	[For models with single-shot or autosampler option] 70Xe - Metering Pump (IVEK)	
000-05-7109	[For models with single-shot or autosampler option] 70Xe - Metering Pump (FMI)	
000-05-7145	[For models with single-shot or autosampler option] 70Xe - Drain Pump Replacement Kit	
000-05-7146	70Xe - Chamber TEC Replacement Kit	

000-05-7147	70Xe - Purge Pump Replacement Kit	
000-30-8724	70Xe - Electrical Fuse	
000-40-0011	[For models with single-shot or autosampler option] 70Xe - Sample-In Filter	
402-02-0007	[For models with single-shot or autosampler option] 70Xe - Drain Filter Replacement Kit	
000-50-6010	[For models with autosampler option] 70Xe - Autosampler Power/Communication Cable	
000-05-7100	70Xe - Cold Properties Cooling System	
000-05-7114	[For models with single-shot or autosampler option] 70Xe - Cell Flush Solenoid Assembly	
000-05-7030	[For models with single-shot or autosampler option] 70Xe - Drain Stop Solenoid Assembly	
000-05-7016	[For models with single-shot or autosampler option] 70Xe - Bottom Drain Solenoid Assembly	

000-05-7014	70Xe - PPC Module (for Models with No Viscosity)	
000-05-7152	[For manual pipette models] 70Xe - Manual Lid Assembly Replacement Kit	
000-05-7153	[For models with single-shot or autosampler option] 70Xe - Auto Load Lid Assembly Replacement Kit	
000-05-7154	70Xe - Computing Assembly Replacement Kit	
000-06-6007	70Xe - TEC Board	
000-06-6008	70Xe - Universal Board	
000-06-6010	70Xe - Display Board	

000-06-6012	[For models with single-shot or autosampler option] 70Xe - Metering Pump Board	
000-06-6020	70Xe - Chamber Board	
000-05-7156	70Xe - Sample Cup Board Assembly Replacement Kit	
000-06-6011	70Xe - Light Strip Board	
000-06-6026	70Xe - USB Switch Board	
000-05-7157	70Xe - LCD with Cable Replacement Kit	

000-05-7038	70Xe - 13.3" Touchscreen Assembly	
000-05-7039	70Xe - LCD and Touchscreen Assembly	
000-05-7040	70Xe - Complete Display Assembly with LCD, Touchscreen and Boards	
000-05-9989	70Xe - Power Supply Assembly	
000-40-0012	70Xe - Lower Chamber and Viscosity Box Leak Check Fitting (10-32 to 1/8")	
000-05-7158	70Xe - Back Panel Fan Replacement Kit	
000-05-7101	70Xe - Chamber Fan Blower Assembly	

000-05-7140	[For models with autosampler option] 70Xe -Probe Select Solenoid Assembly	
SERVICE		
	CAUTION! The spare parts mentioned in this list must be replaced by PAC authorized service technicians. For any replacement only genuine PAC parts must be used.	

8. REFERENCE STANDARDS

Part number	Description	Quantity	
PTJF1	Reference material with certificate, jet fuel ASTM D5972 Freezing Point (~ -45°C)	Approx. 25 mL	
PTJF2	Reference material with certificate, jet fuel ASTM D5972 Freezing Point (~ -50°C)	Approx. 25 mL	
PTDL1	Reference material with certificate, diesel fuel ASTM D5773 Cloud Point (~ -10°C) ASTM D5949 Pour Point (~ -15°C)	Approx. 25 mL	
PTDL2	Reference material with certificate, diesel fuel ASTM D5773 Cloud Point (~ -15°C) ASTM D5949 Pour Point (~ -20°C)	Approx. 25 mL	
PTDL3	Reference material with certificate, diesel fuel ASTM D5773 Cloud Point (~ -20°C) ASTM D5949 Pour Point (~ -25°C)	Approx. 25 mL	
PTBO1	Reference material with certificate, diesel fuel ASTM D5773 Cloud Point (~ 0°C) ASTM D5949 Pour Point (~ 0°C)	Approx. 25 mL	
PTBO2	Reference material with certificate, diesel fuel ASTM D5773 Cloud Point (~ -10°C) ASTM D5949 Pour Point (~ -15°C)	Approx. 25 mL	
PTBO3	Reference material with certificate, diesel fuel ASTM D5773 Cloud Point (~ -10°C) ASTM D5949 Pour Point (~ -15°C)	Approx. 25 mL	
PTLU1	Reference material with certificate, diesel fuel ASTM D5949 Pour Point (~ -30°C)	Approx. 25 mL	
PTLU2	Reference material with certificate, diesel fuel ASTM D5949 Pour Point (~ -40°C)	Approx. 25 mL	

01000-860-51	Certified Reference Material Freezing Point appr. -50°C	Approx. 255 ml	
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9. 1-year and 2-year Spares & Consumables Parts List

Model	Spares & Consumables Parts List		
PSA-70Xe or PCA-70Xe or PFA-70Xe or FCA-70Xe or FPA-70Xe or CPA-70Xe or PPA-70Xe	1-year:		
	Part Number	Description	Quantity
	COTSWAB	Swabs, Cotton, Package of 4,000	1
	PTIP-150MD	Pipette Tips, PPP-150M, Package of 1,920	1
	DRD-610P	Dryer desiccant (10-pack) and two dust filter rings for analyzer purging system.	1
	DRP-06C	[For models with Freezing Point] Sample dryer sacs (600 sacs/can) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.	1
	PFILM-70Xe	Screen protector for 70Xe Series touch screen (in package of 5)	1
	101-02-6745	Dryer Bottle O-Ring Replacement Kit	1
	101-02-6714	Lid O-Ring Replacement Kit	1
	000-05-7147	70Xe - Purge Pump Replacement Kit	1
	2-year:		
	Part Number	Description	Quantity
	COTSWAB	Swabs, Cotton, Package of 4,000	2
	PTIP-150MD	Pipette Tips, PPP-150M, Package of 1,920	2
	DRD-610P	Dryer desiccant (10-pack) and two dust filter rings for analyzer purging system.	2
	DRP-06C	[For models with Freezing Point] Sample dryer sacs (600 sacs/can) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.	2
	PFILM-70Xe	Screen protector for 70Xe Series touch screen (in package of 5)	2
	101-02-6745	Dryer Bottle O-Ring Replacement Kit	2
	101-02-6714	Lid O-Ring Replacement Kit	2
	000-05-7147	70Xe - Purge Pump Replacement Kit	2
	000-05-7146	70Xe - Chamber TEC Replacement Kit	1

PSA-70Xe-SS or PCA-70Xe-SS or PFA-70Xe-SS or FCA-70Xe-SS or FPA-70Xe-SS or CPA-70Xe-SS or PPA-70Xe-SS	1-year:		
	Part Number	Description	Quantity
	APX48-30G	30 mL glass vials. Quantity: 1,014.	1
	DRD-610P	Dryer desiccant (10-pack) and two dust filter rings for analyzer purging system.	1
	DRP-06C	[For models with Freezing Point] Sample dryer sacs (600 sacs/can) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.	1
	PFILM-70Xe	Screen protector for 70Xe Series touch screen (in package of 5)	1
	101-02-6745	Dryer Bottle O-Ring Replacement Kit	1
	101-02-6714	Lid O-Ring Replacement Kit	1
	000-05-7147	70Xe - Purge Pump Replacement Kit	1
	402-02-0007	70Xe - Drain Filter Replacement Kit	1
	000-40-0011	70Xe - Sample-In Filter	1
	2-year:		
	Part Number	Description	Quantity
	APX48-30G	30 mL glass vials. Quantity: 1,014.	2
	DRD-610P	Dryer desiccant (10-pack) and two dust filter rings for analyzer purging system.	2
	DRP-06C	[For models with Freezing Point] Sample dryer sacs (600 sacs/can) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.	2
	PFILM-70Xe	Screen protector for 70Xe Series touch screen (in package of 5)	2
	101-02-6745	Dryer Bottle O-Ring Replacement Kit	2
	101-02-6714	Lid O-Ring Replacement Kit	2
	000-05-7147	70Xe - Purge Pump Replacement Kit	2
	000-05-7145	70Xe - Drain Pump Replacement Kit	1
	402-02-0007	70Xe - Drain Filter Replacement Kit	2
	000-40-0011	70Xe - Sample-In Filter	2
	000-05-7146	70Xe - Chamber TEC Replacement Kit	1

PSA-70Xe-AS or PCA-70Xe-AS or PFA-70Xe-AS or FCA-70Xe-AS or FPA-70Xe-AS or CPA-70Xe-AS or PPA-70Xe-AS	1-year:		
	Part Number	Description	Quantity
	APX48-30V	30 mL glass vial with cap and dual-layer septum. Quantity: 1,014.	1
	DRD-610P	Dryer desiccant (10-pack) and two dust filter rings for analyzer purging system.	1
	DRP-06C	[For models with Freezing Point] Sample dryer sacs (600 sacs/can) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.	1
	PFILM-70Xe	Screen protector for 70Xe Series touch screen (in package of 5)	1
	101-02-6745	Dryer Bottle O-Ring Replacement Kit	1
	101-02-6714	Lid O-Ring Replacement Kit	1
	000-05-7147	70Xe - Purge Pump Replacement Kit	1
	402-02-0007	70Xe - Drain Filter Replacement Kit	1
	000-40-0011	70Xe - Sample-In Filter	1
	2-year:		
	Part Number	Description	Quantity
	APX48-30V	30 mL glass vial with cap and dual-layer septum. Quantity: 1,014.	2
	DRD-610P	Dryer desiccant (10-pack) and two dust filter rings for analyzer purging system.	2
	DRP-06C	[For models with Freezing Point] Sample dryer sacs (600 sacs/can) for removing moisture in fuel sample. Recommended for jet fuel freezing point test.	2
	PFILM-70Xe	Screen protector for 70Xe Series touch screen (in package of 5)	2
	101-02-6745	Dryer Bottle O-Ring Replacement Kit	2
	101-02-6714	Lid O-Ring Replacement Kit	2
	000-05-7147	70Xe - Purge Pump Replacement Kit	2
	000-05-7145	70Xe - Drain Pump Replacement Kit	1
	402-02-0007	70Xe - Drain Filter Replacement Kit	2
	000-40-0011	70Xe - Sample-In Filter	2
	000-05-7146	70Xe - Chamber TEC Replacement Kit	1