

Katalogová technická specifikace Empyrean DODÁVKA RENTGENOVÉHO PRÁŠKOVÉHO DIFRAKTOMETRU S Co RENTGENKOU

Poz.	Počet	Obj.č.	Název a popis
1			Basic Module Empyrean MultiCore Optics Co
	1.00	9500 020 00201	EMPYREAN
	1.00	9430 886 60203	EMPYREAN MULTICOR P3D Co
			Diffractometer cabinet (radiation enclosure) with electronics rack and system controller, equipped with wide doors for easy access to the diffractometer. Includes two 19" rack positions for additional electronics (e.g. non-ambient controllers). The cabinet complies to the world's most stringent regulations on X-ray, electrical and mechanical safety. The emission level is below 1 microSievert per hour on 10 cm distance, even with Mo or Ag X-ray tubes. The diffractometer cabinet is equipped with a 240 mm radius theta-theta goniometer and a source module for Empyrean X-ray tubes. Also included is data acquisition software Data Collector that contains the following functionality: data acquisition based on the XRDML data platform, measurement strategy determination tools, configuration and measurement management, automatic processing, data conversion and viewing functionality for X-ray diffraction systems. It includes automatic recognition of the PreFIX x-ray optical modules mounted. The MultiCore Optics package consists of the iCore and dCore modules, allowing to perform the largest variety of x-ray diffraction measurements with excellent data quality and no human interaction. It includes also and the PIXcel3D detector, which uses the Medipix3 solid state pixel detector technology co-developed with CERN and other particle physics institutes. Please note that delivery of the PIXcel detector is subject to your confirmation of use thereof for x-ray analytical purposes with PANalytical XRD system only. System is complete of Empyrean tube for Co radiation, HR version for an enhanced stability of the focal spot for use with X-ray mirrors, hybrid and Johansson monochromators. It includes PANViewer and XRD2DScan
	1.00	9430 031 51061	Beta filter Fe
			Fe filter for suppression of unwanted radiation, such as white radiation and Co K-Beta radiation. To be used with Co X-ray tubes. The intensity of the Co K-Beta line is reduced to less than 1% of the Co K-Alpha intensity.
2			Ostatní položky - sample stages
	1.00	9430 060 92001	Programmable z platform
			PreFIX interface with programmable z-adjustment for theta-theta goniometers. Provides mounting possibilities for various sample platforms at three different height positions. Maximum z-range per height position 25 mm
	1.00	9430 060 97001	Programmable x-y platform
			Sample stage with programmable x-y axes. Compatible with 9430 060 92001 PreFIX interface with manual z-adjustment or with 9430 060 47111 PreFIX interface with programmable z-adjustment. It allows programmable positioning of the sample in x and y directions. Maximum sample mass: 2 kg. Maximum sample dimensions 95 mm x 95 mm x 53 mm (l x w x h). Positioning range 54 mm (-27 mm, +27 mm) for both axes Contains 9430 060 95001 motorized double tilt and manual phi sample table with holder 9430 064 20001 for solid samples Contains 9430 064 61001 sample holder suitable for the Empyrean stages with Phi-X-Y capabilities, to be used with sample table of 80 mm for clamping solids and fragments for not flat samples Contains 9430 064 24001 Clamping device for PW18xx sample holders for reflection and transmission
	1.00	9430 060 40001	Dial gauge
			The dial gauge for sample height adjustment and alignment fits on the PreFIX accessory position on the stage interface.
	1.00	9430 060 80003	Spinning sample stage

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			PreFIX sample stage for sample spinning 9430 018 xxxx1 circular sample holders, with programmable phi-axis positioning or scanning. This stage can be used in reflection or transmission mode, and may be used in combination with the 9430 060 31001 sample changer - included. Also included is the sample spinner changer interface. Sample changer holds up to three 9430 060 32001 Sample Magazines with 9430 018 xxxx1 circular sample holders. The sample changer includes three (3) sample magazine to hold up to 15 sample holders and requires a 9430 060 80002 Reflection-Transmission Spinner. Can be moved to its parking position inside the cabinet when not in use. Includes three separate positions for monitor/reference samples.
1.00	9430 060 43001		Beam knife
			The beam knife fits on the PreFIX accessory position on the stage interface. Range of adjustment: 0.5 mm - 5 mm above sample surface. The beam knife is used with linear detectors.
1.00	9430 030 64203		Beam stop
			Beam stop to be mounted on the reflection/transmission spinner for improved low angle performance and reduction of background due to air scatter in transmission experiments
2.00	9430 018 11001		SAMPLE HOLDER BOTTOM, PW1800, SET OF 3
			Set of bottom plates (3 pieces) for sample holder rings 9430 018 11161 and 9430 018 11271.
1.00	9430 018 12001		SAMPLE HOLDER, 46MM, OPEN, SET OF 3
			The PANalytical 46mm Sample Holder, is a set of 3 holders for the front-loading of solid samples. The internal diameter of the holder is 44mm and the maximum thickness is 6.5mm. Supports scans starting at 0 degrees 2theta.
1.00	9430 018 14321		Low Angle Sample Holder
			The PANalytical 32mm Low Angle Sample Holder, is a set of 3 sample holders for 32mm pellets, silicon plate, or the 9430 018 16321, ceramic filter plate. The maximum diameter of the sample on a filter plate is 29mm, with a thickness of between 0.4 and 0.5mm. Supports scans starting at zero degrees 2theta.
1.00	9430 018 11161		16mm Sample Insert
			The PANalytical 16mm Sample Insert, is a set of 3 holders used for the back-loading or front-loading of powder specimens, either manually or semi-automatically. This ring-shaped holder needs to be supported by the bottom plate, 9430 018 11001. The internal diameter of the ring is 16mm and the thickness is 2.4mm. Supports scans starting at 0 degrees 2theta.
1.00	9430 018 11271		27mm Sample Insert
			The PANalytical 27mm Sample Insert, is a set of 3 holders used for the back-loading or front-loading of powder specimens, either manually or semi-automatically. This ring-shaped holder needs to be supported by the bottom plate, 9430 018 11001. The internal diameter of the ring is 27mm and the thickness is 2.4mm. Supports scans starting at 0 degrees 2theta.
1.00	9430 018 17321		Low background Insert
			The PANalytical 32 mm Low background Insert, is a set of 2 silicon single crystal substrates, which are used for measurements of small amounts of sample material that require low background intensity. The diameter is 32 mm and the thickness is 2 mm. One side of the substrate is flat while the other side has a recess of 15mm diameter and 0.2 mm deep. May be used with 9430 018 13321 or 9430 018 12001 sample holders.
1.00	9430 018 18401		Sample holders transmission
			Set of 3 sample holders for measurement of samples in transmission geometry. Accepts inserts of 6 mm thick and 40 mm diameter, such as the 9430 018 18251. This sample holder is designed for use with the 9430 030 76001 transmission spinner or reflection/transmission spinner 9430 030 64601.
1.00	9430 018 18251		Inserts for transmission
			Set of 3 inserts for the analysis of samples in the transmission. To be used with the 9430 018 18401 sample holder. These inserts can be used to clamp thin foils or fibers. The inner diameter of the ring is 25

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			mm, the maximum 2Theta angle in transmission geometry is 120 degrees (when making a symmetrical scan with the transmission spinner sample stage 9430 030 76001.). To be used in the 9430 018 18401 sample holder and the 9430 030 76001 transmission spinner stage. Can also be used (in reflection geometry) in other sample stages that accept the range of 9430 018 xxxx sample holders.
	1.00	9430 500 07191	X-RAY FILM POLYESTER PETP 3.6UM
			Polyester PETP X-ray film, 3.6 microns thick. Also known as Mylar. Supplied as pre-cut circles (x500)
3			Ostatní položky - optika
	1.00	9430 031 52661	Focussing Mirror (eliptical)
			Incident beam PreFIX module with elliptical X-ray mirror for Co radiation. The multi-layer crystal converts a divergent beam projected by a line focus of an X-ray tube into a quasi-monochromatic and focused beam of high intensity. White radiation and K-beta lines are virtually eliminated. With a focal point at the detector, the elliptical mirror is ideal for transmission experiments through capillaries, films, foils, and low average atomic number materials, such as pharmaceutical tablets. For EMPYREAN/X'Pert-PRO MPD systems with a goniometer radius of 240 mm. Includes 1 attenuator (Fe 0.2 mm), a beta filter (Fe 0.015), three divergence slits (1/32°, 1/2° and 1/4°) and an anti-scatter slit (1.4 mm). Contains 9430 030 86751 Antiscatter slit for reflection transmission spinner 9430 030 89001 Set of beam masks to reduce the beam width 9430 061 20001 + 9430 061 20011 Set of primary and secondary microbeam masks
	1.00	9430 031 41201	Polycapillary focusing X-ray lens
			Incident beam PreFIX module with polycapillary focusing X-ray lens, providing a high intensity in a small X-ray beam. The X-ray beam at the sample position has a diameter of 50±5 micrometer. This lens is optimized for micro-diffraction, stress and texture analysis of small (spot on) samples with the resolution of 0.5 degrees.
	1.00	9430 030 17601	Interface for mounting a PIXcel detector on the PANalytical point detector PreFIX modules.
	1.00	9430 030 85411	Soller slit 0.04 radians, large aperture for diffracted beam anti-scatter device for X'Celerator detector. Exchangeable with Soller slit large 0.02 radians (9430 030 85211).
4			Ostatní
	1.00	9430 098 74993	State-of-the-art workstation PC with 64-bit Microsoft Windows OS
	1.00	9430 500 74151	Dell Professional P2311H monitor or its -PANalytical selected-successor at the moment of shipment. 23 inch LED widescreen VGA,DVI-D (1.920 x 1.080) black
	1.00	9430 886 49103	Alignment camera and Data Collector Camera plug-in
			The Alignment camera with Data Collector camera plug-in allows users to easily align their samples to the point of interest. Images of the point of interest can be saved to the hard drive.
	1.00	9430 060 49201	HEIGHT SENSOR
			The height sensor allows automatic z-adjustment for irregularly shaped samples or multiple samples with different thicknesses. It fits on the PreFIX position for stage accessories. It can be used in combination with the 9430 886 49101 Alignment camera.
	1.00	9430 037 22003	HEIGHT SENSOR ELECTRONCS
	1.00	9430 500 28771	Air Compressor 230 V 50 Hz for floorstanding XRD and XRF systems.
	1.00	9430 500 74831	sigma-C5 AC ID 400V, 50Hz, 3 ph
			A specially designed Hyfra refrigerated single pump cooling system (compressor) with an air cooled condenser. Sufficient capacity to cool 4.0 kW up to 32°C ambient air at 20°C cooling water temperature. This indoor chiller is considered a low noise unit with only 70 dB(A). It operates at 400Volt, 50Hz, 3 phases. The chiller uses as Refrigerant gas R134a. The system has as weight ~ 114 kg, dimensions (LxBxH, mm) 720x835x930, and a vertical air exhaust outlet.

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	10.00	9430 032 09922	<p>HighScore Plus</p> <p>Performs data treatments and XRD phase identification on various systems. Allows installation of the software on one additional device. Data input and output is by files (all PANalytical and many competitor formats). This product requires a reference database for phase identification; options are the ICDD PDF2 or PDF4+/Minerals/Organics or the free COD (http://www.crystallography.net/new.html). Includes the following features:</p> <ul style="list-style-type: none"> · Search-match algorithm uses peak and profile data · Auto-residue scoring · Advanced reporting functions · Graphics for examining, displaying, and editing diffractograms · Supports any number of user-defined reference databases · Includes batch feature for auto function of a sequence · Automation ready - can be launched from a command prompt · Similarity analysis of scans (cluster analysis up to 50 scans) · Referenced Intensity Ratio (RIR) for estimation of quantities of all identified phases · Percent crystallinity · Very fast profile fitting · Line profile analysis, microstructure analysis by profile fits · PLS partial least squares to determine/quantify one property directly from raw data <p>Windows XP Professional (32 bit) and Windows 7-8 Professional (32 bit and 64 bit) compliant, supports Windows 10</p>
			<p>Plnění smlouvy nebo veškeré služby s ní související v žádném případě neznamenají žádný převod duševního vlastnictví. Veškeré duševní vlastnictví týkající se dodávaných výrobků, doprovodných předmětů a dokumentů i poskytovaných služeb (též vytvořené, vyrobené nebo vyvinuté v rámci nebo v průběhu této smlouvy) bude a zůstane majetkem dodavatele (nebo jeho dodavatelů). Duševní vlastnictví ohledně výsledků obdržení kupujícím používáním dodávaných výrobků zůstává v majetku kupujícího</p>
			<p>Dodávka podléhá přísnému dodržování zákonů a nařízení regulujících vývoz. Dodavatel bude zproštěn svých povinností dodat produkty nebo poskytnout služby v rozsahu, v němž budou takové žádosti o povolení nebo licence příslušným administrativním orgánem odmítnuty. Pokud je taková licence nebo autorizace odmítnuta a znamená to nemožnost dodat zboží nebo služby, kupující je oprávněn obdržet zpět cenu již zaplacenou</p>
			<p>V maximálním možném rozsahu povoleném platnými zákony nepřekročí odpovědnost dodavatele kupujícímu za případné reklamace, které vyplynou z této smlouvy, kupní cenu produktů nebo služeb, na něž se bude vztahovat nárok na náhradu škody. Dodavatel dále nebude odpovědný za žádné regulatorní pokuty či kárné, exemplární, speciální, nepřímé, náhodné nebo následné ztráty nebo škody, jako je mimo jiné ušlý zisk, ztráta produkce, ztráta dat a ztráta užítosti, at' již byly či nebyly tyto reklamace, ztráty nebo škody rozumně předvídatelné Malvern Panalytical nebo dodavatelem.</p>
			<p>Generální ředitel Světové Zdravotnické Organizace uvedl, že propuknutí Coronavirusu (2019-nCoV) je považováno za mezinárodní událost v oblasti veřejného zdraví. Malvern Panalytical monitoruje tuto situaci a podniká nezbytné kroky k zajištění bezpečnosti našich zaměstnanců, partnerů a zákazníků. V důsledku toho, může dojít k prodávám v dodávkách, instalací, uvedení do provozu systémů a nebo také služeb, které jsou požadovány a smluvně potvrzené, z důvodu nepředvídatelné povahy této epidemie, což znamená, že ji považujeme za událost vyšší moci. Tímto se omlouváme za jakékoliv nepříjemnosti, která tato zpoždění mohou způsobit, ale velmi dbáme o zdraví a bezpečnost našich zaměstnanců, partnerů a zákazníků.</p>
	5		Prodloužená záruční doba na 36 měsíců
	6		Instalace a školení 8 h základní ovládání po instalaci a 16 h aplikačním specialistou nejpozději do 6 měsíců od dodávky
	7		Zasílací náklady
	8		WEEEE - recyklační poplatek