

2022 FFSA Recommendation business “Fields to be selected and recommended products”

Fields	Recommended products	Supplier	Description of features (URL)
2022-01 : inspection and analysis equipment (For Facility cultivation, plant factories and aquaculture system)	[Offline type] Handheld Water Quality meters (D-210,220)	HORIBA Advanced Techno, Co., Ltd. https://www.horiba.com/int/water-liquid/	Basic yet efficiently designed, the 200 series meters are ideal for measurement on the go. https://www.horiba.com/sgp/water-quality/handheld-meters/
	[Offline type] Portable multi digital Meters (WQ-310,320,330)		With their modern technology, versatile design, and advanced features, the WQ-300 series smart meters are first of its kind offering flexibility and dependability in every application. https://www.horiba.com/sgp/water-quality/handheld-meters/
	[Offline type] Pocket Water Quality Meters (LAQUAtwin pH,EC,Na,K,NO3,Ca,Salt)		The LAQUAtwin series offers easy, quick, and accurate measurements of 7 parameters using microvolume samples. https://www.horiba.com/sgp/water-quality/pocket-meters/
	[Offline type] Multi-parameter Water Quality Checker (U-51,52,53)		U-50 series Multi-parameter water quality checker enables to measure and indicate the monitoring result simultaneously up to 11 parameters with one unit. https://www.horiba.com/int/products/detail/action/show/Product/u-50-434/
	[Offline type] Radiation Monitor (PA-1000,1100)		This environmental radiation is emitted continuously, day and night, from various objects and substances in the natural world and our environment. https://www.horiba.com/int/process-and-environmental/products/radiation-monitor/
	[Offline type] Test Kit for Pesticide Analysis (SmartAssay)		Pesticide residue analysis test kits “SmartAssay series” developed based on such a knowledge have been evaluated by researchers as applicable to residual pesticide analysis in farm products. The kits are used for pesticide test before shipment. https://www.horiba.com/uploads/media/16e_18_SA_MIYAKE_2nd_01.pdf
	[Online type] H-1 Series (Field-Installation Type) Water Quality Meters (pH:HP-200/ORP:HO-200/DO:HD-200/EC:HE-200)		Field-installation Type Water Quality Meters H-1 series offer a rainproof structure. This has been newly developed under the concepts of “Tough”, “Intelligent”, and “Easy maintenance” in order to stand the severe environmental conditions of on-site processes. https://www.horiba.com/int/water-liquid/products/series/h-1-series-field-installation-type/#top
	[Online type] H-1 Series (Field-Installation Type [Two-Wire Transmission]) Water Quality Meters (pH:HP-300/ORP:HO-300/DO:HD-300/EC:HE-300)		Field-installation Type Water Quality Meters H-1 series offer a rainproof structure. This has been newly developed under the concepts of “Tough”, “Intelligent”, and “Easy maintenance” in order to stand the severe environmental conditions of on-site processes. [Two-Wire Transmission type] https://www.horiba.com/int/water-liquid/products/series/h-1-series-field-installation-type/#top
[Online type] Panel Mount Type Water Quality Meters (pH:HP-480/ORP:HO-480/DO:HD-480/EC:HE-480)	The panel mount type SLIM48 series instruments are the optimum Analyzers for incorporation in an instrumentation system. Their compact design means minimal space requirements for systems that combine multi-item measurement instruments. https://www.horiba.com/int/water-liquid/products/series/4896-series-panel-mount-type/		
[Online type] Field-installation Type Ammonia Nitrogen Meter (NH4-N: HC-200NH)	HC-200NH is an ammonia nitrogen(NH4-N) meter using ion electrode method which is designed for aeration control in wastewater treatment. https://www.horiba.com/int/water-liquid/products/detail/action/show/Product/hc-200nh-180/		
2022-02 : Hydroponics system (For Facility cultivation, plant factories)	hydroponics plant HYPONICA®	Kyowa CO.,LTD. https://www.kyowajpn.co.jp/	From sunlight to artificial light. Hydroponics cultivation systems that draw out the true power of plants. https://www.kyowajpn.co.jp/
	Hydroponic cultivation system for leafy vegetables Napperland	Mitsubishi Chemical Aqua Solutions CO.,LTD. https://www.mcas.co.jp/	This hydroponics system can grow spinach, lettuce, Komatsuna, bok choy, mizuna, arugula, scallions, and many other items. Large-scale, year-round, and stable production of leafy vegetables is possible. https://www.napperland.net/plant_system/napper_land/
2022-03 : Cultivation environment control equipment (For Facility cultivation, plant factories)	Heat Pump Air conditioner for Greenhouse GuppyBazooka	E's Inc	This system has an energy-saving, high COP and excellent weather resistance because indoor unit is designed by outdoor unit basis. Indoor unit is filterless, hence it is maintenance free and can suppress the performance deterioration due to the dust clogging. In addition, it has a large air volume fan, so it can reduce the temperature unevenness in the greenhouse, this system is an ideal product for greenhouse cultivation. https://esinc.co.jp/goods/bazooka/
2022-04 : Materials for improving the cultivation environment (For Facility cultivation, plant factories)	Polyolefin film for greenhouse DIASTAR™	Mitsubishi Chemical Agri Dream Co., Ltd. https://www.mc-agri.co.jp/en/	High performance, durable and ultra-clear film Specially designed for growing crops - Superior clarity - Our special catalyst “metallocene plastomers” ensures a durable yet flexible film. - The proprietary coating technology achieves long lasting anti-drip effect.