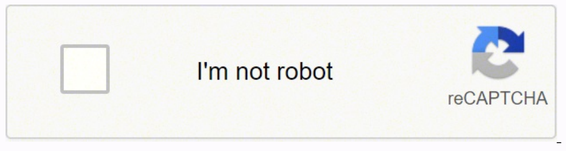

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Alfa laval separator pdfs 2017 2018

Learn more about our innovations for separation industry Leaving the distributor, the feed enters the disc stack (3). Material data Bowl body, hood and lock ring s.s. 1.4501 UNS S32760 Solids cover and frame hood s.s. 1.4401 UNS 31600 Bottom frame grey cast iron, clad with s.s. 1.4301 UNS 30400 In and outlet s.s. mostly 1.4401 UNS 31600 Gaskets and O-rings Nitrile rubber Operating principles Separation takes place inside a rotating bowl. . Alfa Laval has supplied separation systems to the biopharma industry for decades, and we offer technology for all types of biopharma applications. See our portfolio of separators for food and beverage industries . BRAND NEW Centrifugal Separator ALFA LAVAL S937 Cleaning of fuel and lubricating oils: Min. Click on the link below. See our portfolio of marine separators Service offering for separators With Alfa Laval as a partner, you have the full backing of a global service organization with dedicated separation experts in your region. In different optimized executions it is used for a large number of duties, from handling separation of fish press liquid, stick water and extracts, and on the other hand purification of fish oil and liver oil, animals fats, peel oil and similar products. Utilities consumption Electric power at 40 m3 /h 36 kW Operating liquid 0.3 l /discharge plus 10–100 l/h Flushing liquid per discharge max. viscosity: 55 cSt at 100°C (700 cSt at 50°C) Feed temperature: 5°C to 100°C Ambient temperature: 5°C to 55°C Feed capacity: In accordance with the separator size capacity table Media inlet/outlet data at separator connections: Oil inlet: max. These functions make it the ideal choice to handle the tough conditions encountered in the animal and fish processing industries. The feed and liquid discharge system, including the paring disc pump for the heavy phase, also rests on this structure. During purification, hot water is fed into the inlet of the bowl before the process liquid is introduced. The separation into liquid–liquid– solids takes place between the discs, with the oil phase moving through the disc stack to the centre. 5 bar at 6 bar air pressure Separated water: max. 4 bar Promote your used machinery online, find buyers with us. Today our equipment removes cat fines from 150 million tonnes of marine fuel oil every year, while simultaneously helping vessels to secure compliance with environmental regulations and achieve unmatched energy savings. Applications The AFPX 617 is designed for intermittent discharge of solids, while separating two intermixed and mutually insoluble liquid phases of different densities. Alfa Laval invented the first disc stack separator and has led the way in the development of centrifuge technology for over a century. Key features of the AFPX 617 centrifuge are its ability to handle high flow rates, high solids content and high-temperature processing. density: 1010 kg/m³ at 15° in ALCAP mode --- 991 kg/m³ at 15° in Purifier mode Max. 18 l Cooling liquid for the lubricating oil 100 l/h Dimensions Technical specification Hydraulic capacity 50 m3 /h (220 US gpm) Bowl speed 4,480 rpm Motor speed synchr. Our unique innovations for energy efficiency and easier maintenance for your centrifugal equipment mean you can expect the lowest total lifecycle cost. The bowl is mounted on top of the spindle, inside the space formed by the upper part of the frame, the ring solids cover, the collecting cover, and the frame hood. The water and heavy solids separated from the oil move to the periphery, and the water flows via channels in the top disc (6) to the paring chamber, where it is pumped out of the rotor by means of a built-in paring disc (7). 2 bar at separator inlet Oil outlet: Max. The following figures indicate the rate of performance, although no guarantees are given. Purifies the heavy liquid phase, which is the major part of the feed mixture. We offer a range of services to support your system throughout its lifetime. No matter where you are in the world, we can be there to answer questions, solve challenges and help you get the most from your equipment. Visit our Separator Innovator knowledge base to learn more about advancements in separation and the steps Alfa Laval is taking to continue revolutionizing the technology. The solids are discharged by means of a hydraulic system, which forces the sliding bowl bottom (8) to drop down at preset suitable intervals, thus opening the solids ports at the bowl periphery. Separation – fish press water 28.000–40.000 l/h (120–180 US gpm) Purification – fish oil 18.000–23.000 l/h (80–100 US gpm) Purification – animal fat 7.000–10.000 l/h (30–45 US gpm) Standard design The machine consists of a frame that has a horizontal drive shaft with clutch and brake, worm gear, lubricating oil bath and vertical bowl spindle in the lower part. The bowl is of them solids-ejecting disc type with a hydraulic operating system for “shooting” (for automatic or manual operation). As our partner, you have access to today’s most complete and diverse offering of disc stack separators – each fully optimized for its specific duty and supplied with all auxiliary systems and key components. See our portfolio of separators for chemical and manufacturing industries . 45/52 kW Starting time 10–12 min Stopping time, at 400 kPa brake pressure 22–25 min Inlet pressure at 35 m3 /h 400 kPa Outlet pressure, oil 0 kPa Outlet pressure, heavy phase 650 kPa Sound pressure 83 dB(A) 1) Overhead hoist lifting capacity min.1,000 kg (2,205 lbs) Connections Feed inlet diameter 76 mm (3”) SMS Union Heavy liquid outlet diameter 76 mm (3”) SMS Union Light liquid outlet diameter 76 mm (3”) hose connections Solids outlet DN 200, PN 10 1) At Alfa Laval we understand the critical role that a separator plays in your operations. The centrifuge bowl is made of Super Duplex stainless steel, which makes it possible to combine extremely high erosion resistance with a very high bowl speed for demanding separation duties. From food and beverage processing and pharmaceuticals to marine applications, oil and gas and more, we can support you with both the expertise and the separation equipment to match your application needs. With sterile, fully hermetic disc stack centrifuges for three-phase separation and high solids-handling capacity, we can help you find the perfect equipment for your specific processes See our portfolio of separators for biopharma . Performance The actual throughputs depend on variables such as the amount and type of solids, the temperature, viscosity and degree of separation required. When you need spares, our distribution network can supply you quickly with the required parts. Contact us to find solutions for everything from milk clarification, skimming (hot and cold) and bactofugation, to anhydrous milk fat production, pre-processing of whey, concentration of fermented milk and more. 226 Home » Separators » Alfa Laval Separators » Alfa Laval AFPX 617 Separator Alfa Laval AFPX separator centrifuges were specially designed for extremely demanding separation jobs. Concentrator AFPX 617XGV-74. density: 820 kg/m³ at 15 Max. We are glad to share with you the expertise we have gained along the way. This water forms a seal around the outer edge of the top disc. 2.5 bar Sludge outlet from separator: without pressure Sludge outlet from sludge pump: max. Basic executions Purifier AFPX 617XGV-14. Optional extras Starter equipment, frequency converter, discharge control panel, standard set of fittings, set of CIP valves and fittings, and serviceability package for online viewing of separator status. The feed is introduced to the rotating centrifuge bowl from the top via a stationary inlet pipe (1), and is accelerated in the distributor (2), which was specially designed to ensure smooth acceleration of the feed liquid (4). 50/60/65 Hz 1,500/1,800/1,950 rpm Centrifugal force inside bowl max. . To learn more about the ways we can boost separation performance for your business, select your application area from the list below. Separators for chemical and manufacturing industries Alfa Laval has been providing the manufacturing and chemical industries with class-leading separation technology for decades, ensuring optimal performance while reducing environmental impact. When it reaches the centre, it is discharged through holes (5) and ejected into the collecting frame. Combined with our worldwide service network, you can count on reliable, high-quality and sustainable operation throughout the long lifetime of your centrifugal equipment. Purifies the light liquid phase, which is the major part of the feed mixture. Separators for food and beverage industries For food and beverage processing industries we supply carefully designed separators to fulfil the specific industry demands. Our machines offer you powerful separation performance and gentle handling to ensure the best possible quality for your products. All parts in contact with the process liquid are made of stainless steel. Basic equipment Concentrator or purifier parts, inlet and outlet devices, revolution counter, set of erosion-protective parts, illuminated sight glass box for light phase outlet, vibration switch, vibration-isolating base plate, flange motor, set of tools and standard set of spares. Separators for dairy processing With deep roots in the dairy industry, Alfa Laval offers a complete portfolio of technologies covering the full scope of dairy separation applications. The light phase becomes concentrated. The electric motor is of the variable frequency drive type or of controlled torque type. In addition, the AFPX 617 centrifuge combines a high Gforce, high sludge capabilities and automated operation. With extensive experience and application knowledge, we can also provide training and in-depth support for everything from basic separation tasks to those involving highly complex liquids and solids. 7,315 g Bowl volume 55 l Sludge space volume approx. For over a century, we have built a reputation of supplying reliable technology with innovations that continuously improve separation performance, safety and sustainability. Separators for biopharmaceutical industry Cell harvesting is a key step in fermentation-based drug production, and the choice of separation equipment greatly impacts product quality, yield and cost for downstream processing. See our complete offering of dairy separation solutions . 26 l Motor power installed 1,500/1,800 rpm synchr. 130 years of innovation and expertise Reliable and highly efficient separation performance Extensive experience in virtually all separation applications The market’s broadest portfolio of disc stack separators Expert support from globally accessible trained service technicians Rapid delivery of high-quality spare parts anywhere in the world Alfa Laval is here to help you solve your separation challenges. Find out why more than 50% of the world’s fleet rely on Alfa Laval separators for handling traditional and new fuels as well as lube and waste oil, bilge water, crankcase gas, and scrubber water. Separators for marine industry For a century, Alfa Laval has pushed the boundaries of separation at sea. We offer a wide range of separators, and our team will help you to find the solution with the capacity and performance that’s perfect for your specific requirements. We can train your team how to operate the equipment to ensure optimal long-term performance. The solids collect in the periphery, where they are discharged intermittently via the centrifuge cyclone. Explore our innovations Would you like to know more about our innovations in separation technology?

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