



IN THE RIGHT PLACE. AT THE RIGHT TIME.

STANDBY SYSTEMS

SPECIAL GENERATING SETS

TRACTION SYSTEMS

COMBINED HEAT&POWER STATIONS

SERVICE

ABOUT THE ENERGY THAT MAKES US GO.

System solutions for generating sets: this is definitely the most concise way to sum up our work. Yet it doesn't really do justice to what we have been doing day in and day out for over 60 years. Because the quality of our work depends not only on what we do, but also on how we do it, which is what really makes the difference at KIRSCH.

Mobile solutions, stationary solutions, or more precisely, standby systems, special generating sets, traction systems and combined heat and power stations: these are clearly defined tasks that we keep facing anew because we

are guided by our customers' unique specifications – and not, for example, by rigid product categories.

Our maxim: a system solution from KIRSCH is always a solution for the customer. That is why we start each project with an intensive consulting phase in which we view the task at hand from various angles as an indispensable first step toward achieving the best possible results.



THINKING ON MULTIPLE LEVELS

– A SKILL WE PRACTICE SYSTEMATICALLY.

It takes flexibility to devise custom-tailored problem solutions under constantly changing conditions – from planning all the way to final implementation. Especially in demand is our ability to think on various technical levels and link together different areas. This is an ability that we love to demonstrate when developing new products. It has spawned a long list of innovations.

The initial requirement is a team of highly qualified engineers and other specialists. People who are imbued with a heavy dose of passion, ambition, pioneering spirit and

willingness to pitch in and give everything they've got. And our ability to get enthusiastic about every new project is especially obvious each time we put a new KIRSCH system solution through its paces.

CHRONOLOGY

- 1945 Foundation
- 1959 Development of double-insulated welding transformers
- 1965 Development of portable generating sets
- 1970 Development of standby systems
- 1975 Development of capacitor-excited asynchronous generators
- 1980 Development of generating sets to meet military specifications
- 1990 Development of special systems, peak load plants and combined heat and power stations
- 1999 Development of PME (Permanent Magnetic Excitation) and VSCF (Variable Speed Constant Frequency) generating sets
- 2003 Development of APU (Auxiliary Power Units) to comply with the current European exhaust gas standard
- 2008 Takeover by the PRETTL Group
- 2009 Development of various hybrid systems



Standby Systems

There are situations where you cannot afford power outages. In such moments, you must be able to rely on your standby system. Unrestricted, because lives can depend on it. The more challenging a job is in terms of a available space and required functionality, the more our ample resources and flexibility come to the fore. This turns every KIRSCH standby system installed into a unique solution - perfectly adapted and meeting complex requirements.

A KIRSCH standby system is your safety.

It intervenes when conventional power fails. Fully automatically, so that the emergency does not become a disaster.

Systems for parallel mains operation

For sensitive plants, e.g. in a hospital, data centers, facilities for telecommunication and data transmission, no interruptions should occur in the electric power supply at the monthly test run. Therefore we work parallel to the grid.

STANDBY SYSTEMS



D 1400-4 MWE standby system, output of 1400 kVA, for supplying emergency power to a clinic.



STANDBY SYSTEMS



9 kVA, 3000 rpm



Type	Max. output kW/kVA PRP	Engine capacity kW PRP	Consumption at 4/4 Load l/h	Dimensions L x W x H approx. mm	Weight dry approx. kg
SDK (D+E) 9 DRE	7,2/9	10,5	3	1310 x 580 x 740	233

20 up to 500 kVA, 1500 rpm




Type	Max. output kW/kVA PRP	Engine capacity kW PRP	Consumption at 4/4 Load l/h	Dimensions L x W x H approx. mm	Weight dry approx. kg
D 20-4 DDME	16/20	19	5,3	1630 x 660 x 1110	470
D 30-4 DDME	24/30	27,6	7,3	1630 x 660 x 1110	540
D 40-4 DDME	32/40	36,4	9,9	1630 x 660 x 1110	610
D 58-4 DDE	46,4/58	52	13,8	1850 x 880 x 1280	910
D 75-4 DDE	60/75	66,1	16,5	1900 x 880 x 1280	910
D 90-4 DDE	72/90	78,5	21	1880 x 950 x 1400	1050
D 100-4 DDE	80/100	90,6	24	2100 x 950 x 1370	1080
D 135-4 DDE	108/135	117,8	30	2470 x 950 x 1410	1470
D 160-4 DDE	128/160	137,8	34	2470 x 950 x 1420	1470
D 200-4 DDE	160/200	178,6	48	2500 x 1000 x 1720	1880
D 230-4 DDE	184/230	199,3	53	2500 x 1200 x 1950	2250
D 315-4 DDE	252/315	273,9	69	2600 x 1200 x 1950	2350
D 430-4 DDE	344/430	369,3	92	2834 x 1384 x 2035	2860
D 500-4 DDE	400/500	433,9	104	2934 x 1545 x 2030	3020

Standby systems


You call us the consumers - we calculate the capacity. We plan and attach. Arrange for fuel and sound insulation. Achieve the standards and guidelines. We are there for you: with our 24-hour service, 7 days a week. From maintenance to remote monitoring: everything from one source

30 up to 400 kVA, 1500 rpm



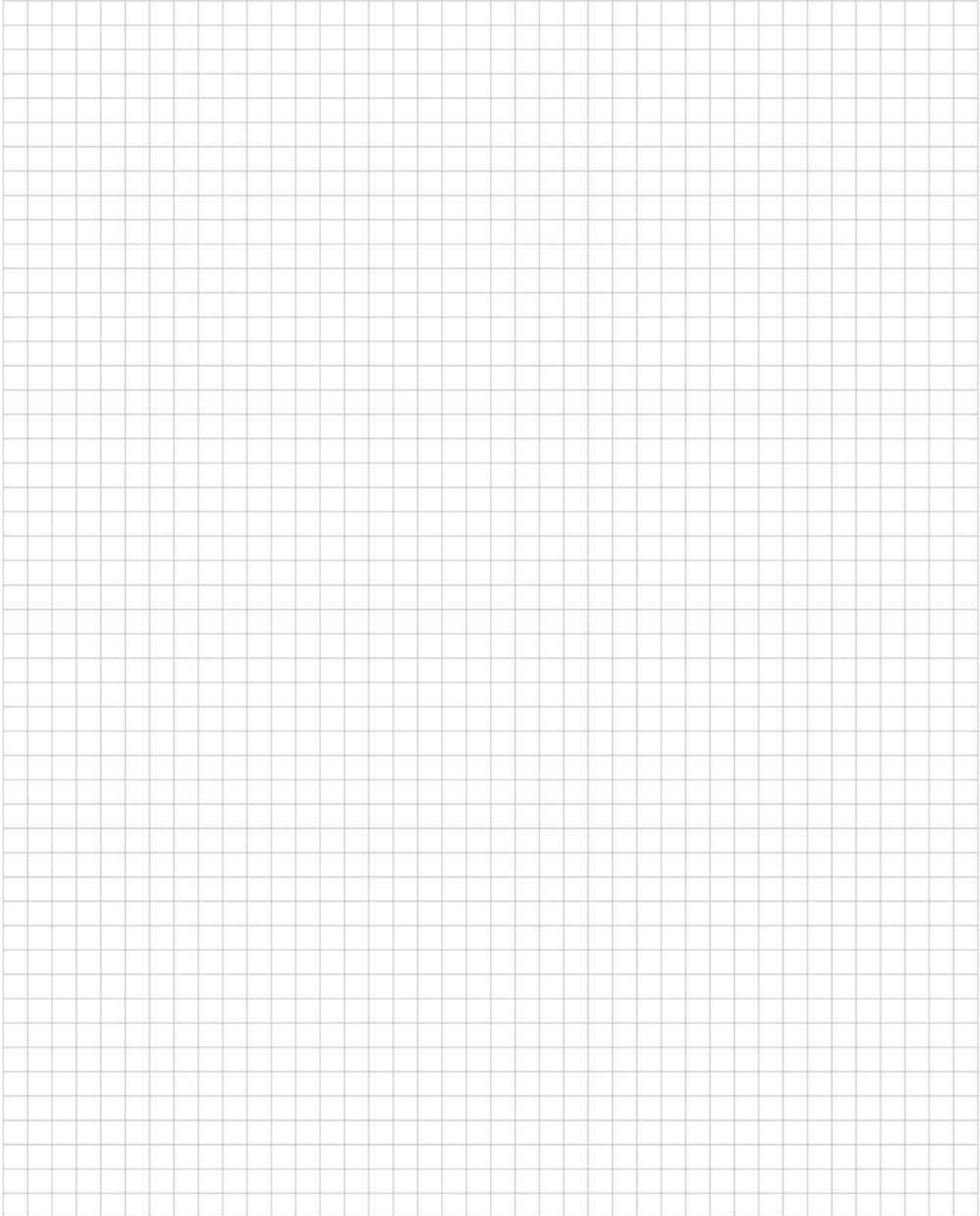
Type	Max. output kW/kVA PRP	Engine capacity kW PRP	Consumption at 4/4 Load l/h	Dimensions L x W x H approx. mm	Weight dry approx. kg
D 30-4 IWE	24/30	29	7,7	1530 x 700 x 1070	690
D 45-4 IWE	34/45	41,5	12	2310 x 730 x 1290	850
D 60-4 IWE	48/60	53,5	14	2310 x 730 x 1330	920
D 85-4 IWE	68/85	77,5	19	2310 x 730 x 1400	1000
D 100-4 IWE	80/100	87,5	22	2310 x 730 x 1400	1070
D 90-4 DDE	72/90	78,5	21	1880 x 950 x 1400	1050
D 100-4 DDE	80/100	90,6	24	2100 x 950 x 1370	1080
D 130-4 IWE	104/130	114	29	2800 x 790 x 1400	1310
D 150-4 IWE	120/150	138	36	2800 x 790 x 1400	1310
D 200-4 IWE	160/200	175	42	2800 x 780 x 1500	1470
D 250-4 IWE	200/250	232	58	3020 x 1060 x 1680	1935
D 300-4 IWE	240/300	263	61	3530 x 1100 x 1740	2500
D 350-4 IWE	280/350	300	68	3530 x 1100 x 1740	2600
D 400-4 IWE	320/400	352	89	3530 x 1290 x 1820	2780

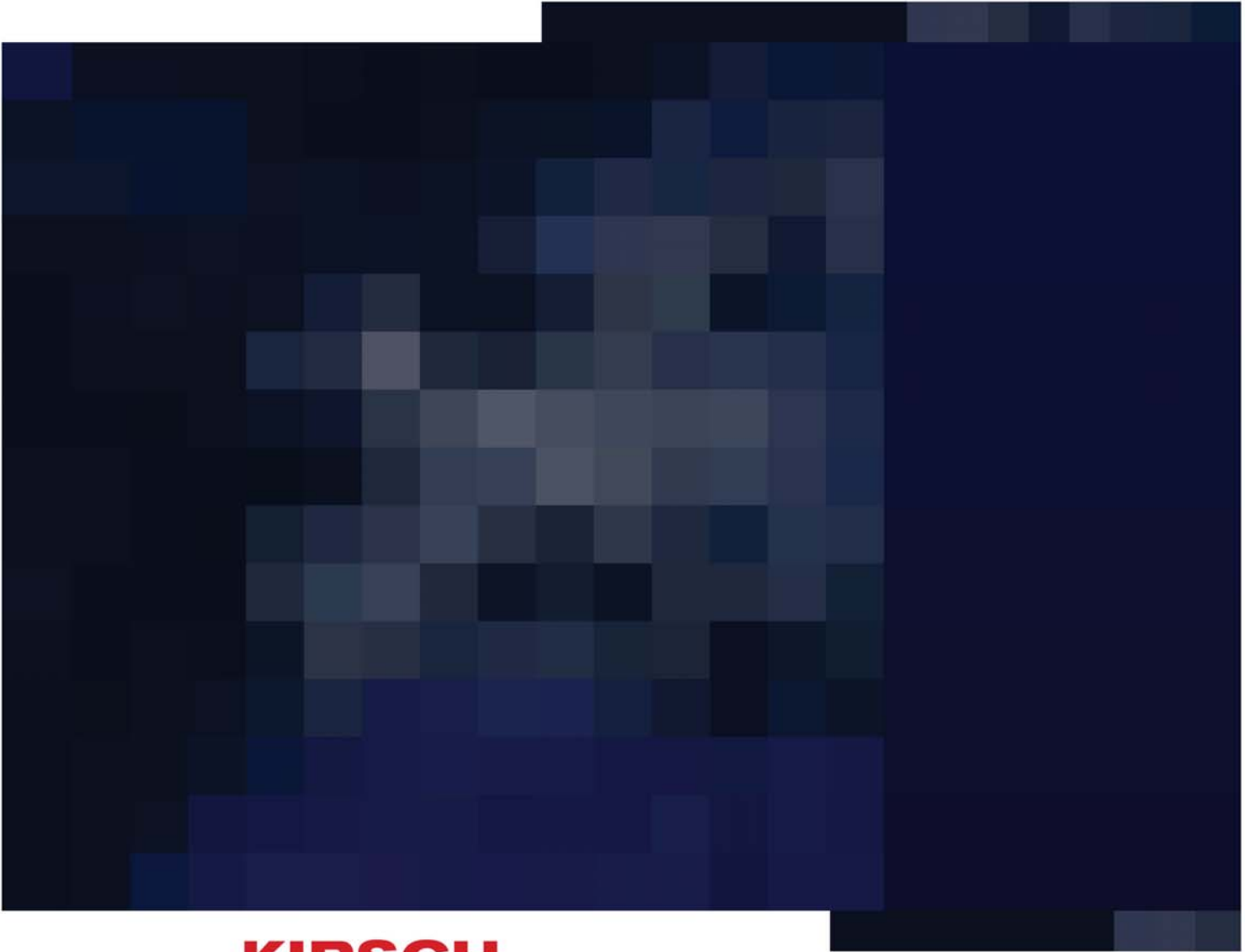
655 up to 3130 kVA, 1500 rpm



Type	Max. output kW/kVA PRP	Engine capacity kW PRP	Consumption at 4/4 Load l/h	Dimensions L x W x H approx. mm	Weight dry approx. kg
D 665-4 MWE	524/655	560	147	3980 x 1630 x 1950	5050
D 795-4 MWE	636/795	670,3	179	3980 x 1630 x 1950	5250
D 910-4 MWE	728/910	775	207	4330 x 1770 x 2190	6150
D 1005-4 MWE	804/1005	849	227	4370 x 1770 x 2190	6180
D 1140-4 MWE	912/1140	960	260	4570 x 1170 x 2200	7160
D 1580-4 MWE	1264/1580	1420	365	4050 x 1890 x 2160	10820
D 1695-4 MWE	1356/1695	1420	365	4050 x 1890 x 2160	11850
D 1860-4 MWE	1488/1860	1575	408	4050 x 1890 x 2160	11850
D 2050-4 MWE	1640/2050	1798	458	4620 x 1890 x 2160	13870
D 2345-4 MWE	1876/2345	1965	503	4620 x 1890 x 2160	14830
D 2645-4 MWE	2116/2645	2200	544	5730 x 2250 x 2460	17910
D 2905-4 MWE	2324/2905	2420	599	5730 x 2250 x 2460	18980
D 3130-4 MWE	2504/3130	2590	644	5730 x 2250 x 2460	19300

Notes:





KIRSCH
energy systems

Kirsch GmbH • Biewerer Str. 231 • 54293 Trier • Germany
Phone: +49 (0)651 966 00 • Fax: +49 (0)651 966 0400 • info@kirsch-energie.de • www.kirsch-energie.de