



## CERTIFICAT / CERTIFICATE N° 93.24.221

délivré pour la gamme de pompes pour systèmes sprinkleurs  
*delivered for the range of sprinkler system pumps*

**Marque commerciale / Brand name : EFAFLU**

**Gamme / Range : NNJ**

**Nombre de modèle(s) / Number of model(s) : 14**

**Commercialisée par / Marketed by : EFAFLU – Bombas e ventiladores, S.A.**

**Adresse / Address : Rua do Comendador Brandão 484 – 4495-375 POVOA DE VARZIM  
PORTUGAL**

### Domaine d'application / Scope

**Installations d'extinction automatique à eau type sprinkleur conformément au référentiel APSAD R1**  
*Automatic sprinkler system installations in accordance with APSAD R1 document*

**Droit d'usage de la marque CNPP Certified attribué conformément à la procédure A221 (septembre 2024) et la procédure SVT P 08-01 A (07.23).**

*CNPP Certified right of use granted in accordance with the A221 procedure (September 2024) and the SVT P 08-01 A (07.23) procedure.*

**Ce certificat est complété par une annexe composée de 15 pages**

*This certificate is completed by the 15 attached pages.*

**Il annule et remplace tout certificat antérieur.**

*This cancels and replaces all the previous certificate.*

**Sa validité peut être vérifiée sur / Its validity can be checked on : [www.cnpp.com](http://www.cnpp.com)**

**Date de prise d'effet / Date of establishment : 12/12/2024**

**Date de fin de validité / Date of end of validity : 11/12/2027**

**Christophe BODIN**  
*Directeur CNPP Cert. /  
CNPP Cert. Manager*

JFR



**CNPP Cert. organisme certificateur / certification body  
reconnu par les professionnels de la sécurité et de l'assurance  
recognized by the security and insurance professionals**

Route de la Chapelle Réanville - CD 64 - CS 22265 - F 27950 LA CHAPELLE-LONGUEVILLE  
Tél. : +33 (0)2 32 53 63 63 - E.mail : certification@cnpp.com - [www.cnpp.com](http://www.cnpp.com)



MCP F 18-01-8 G (10.24)

## Pompes pour systèmes sprinkleurs / Sprinkler system pumps

Annexe au certificat n°93.24.221 délivré pour la gamme NNJ sous la marque EFAFLU  
Appendix to the certificate n°93.24.221 delivered for the range NNJ under the brand EFAFLU

### Liste des modèles couverts / List of covered models :

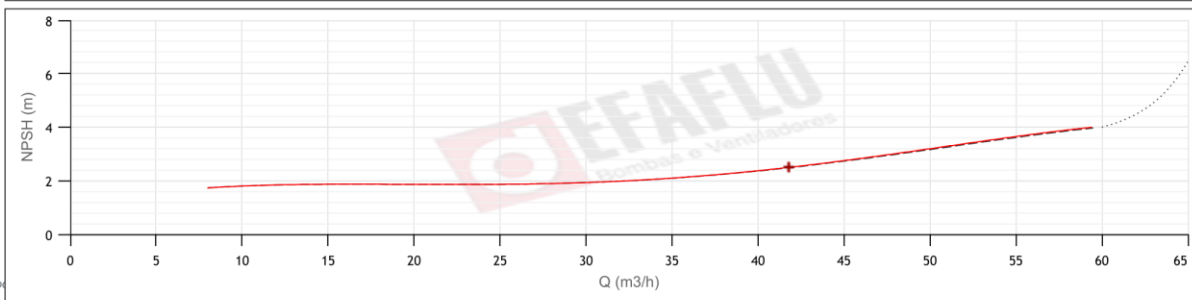
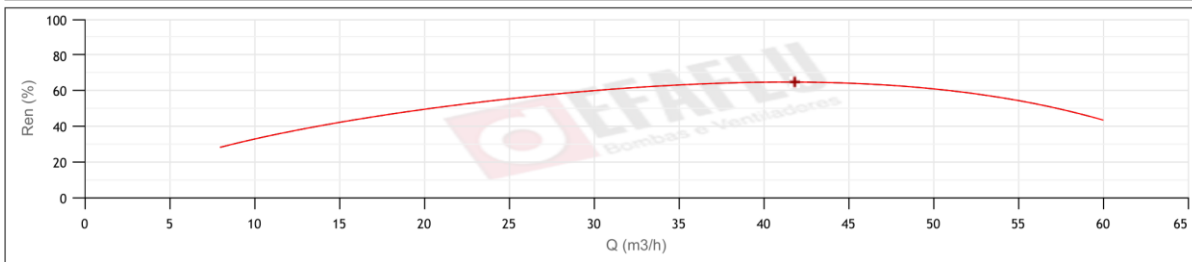
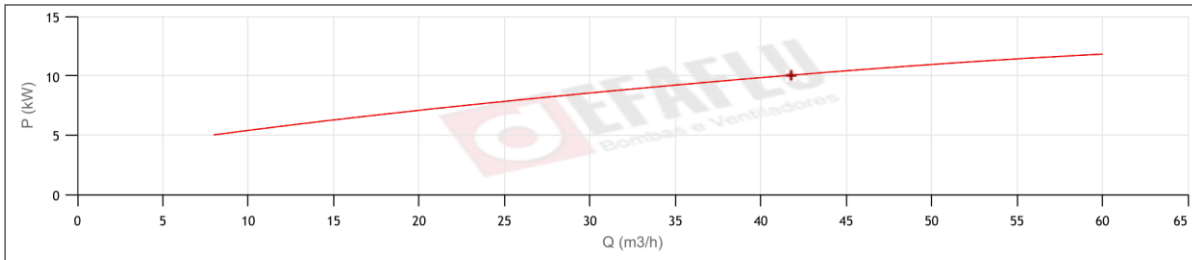
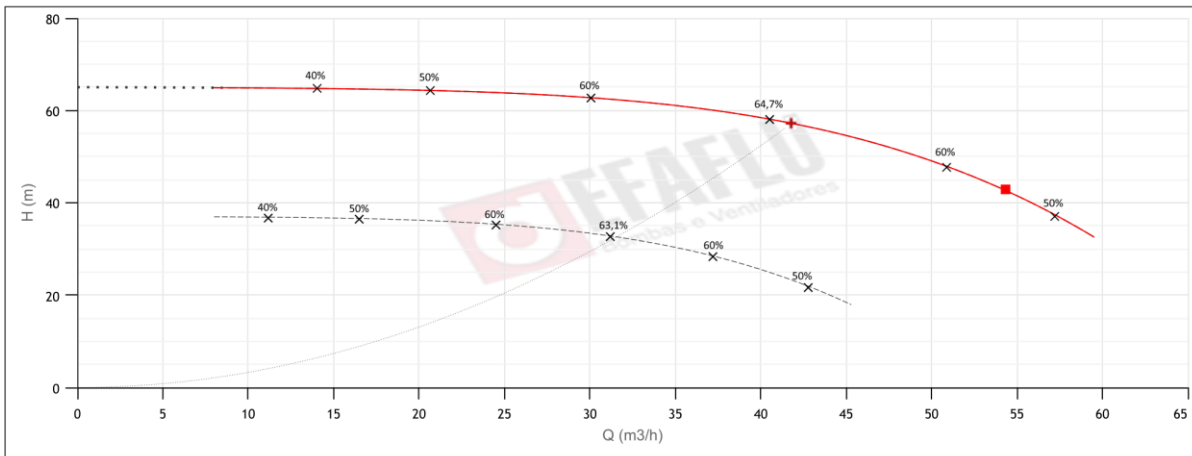
Modèles / Models	Fabricant du corps de pompe / Manufacturer of the pump housing	Référence fabricant du corps de pompe / Manufacturer reference of the pump housing	Vitesse du courbier / curve rated speed	Vitesse maxi d'utilisation / maximal use speed	Diamètre de roue maxi (mm) / maximal impeller diameter (mm)	N° de la courbe / curve n°
NNJ 40-200	EFAFLU	SF25170108	2900 rpm	3045 rpm	213 mm	0701
NNJ 40-250	EFAFLU	SF25170114	2900 rpm	3045 rpm	265 mm	0703
NNJ 50-200	EFAFLU	SF25170109	2900 rpm	3045 rpm	210 mm	0710
NNJ 50-250	EFAFLU	SF25170111	2900 rpm	3045 rpm	265 mm	0712
NNJ 65-200	EFAFLU	SF25170110	2900 rpm	3045 rpm	210 mm	0757
NNJ 65-250	EFAFLU	SF25170118	2900 rpm	3045 rpm	260 mm	0719
NNJ 80-200	EFAFLU	SF25170116	2900 rpm	3045 rpm	213 mm	0724
NNJ 80-250	EFAFLU	SF25170119	2900 rpm	3045 rpm	267 mm	0726
NNJ 100-200	EFAFLU	SF25170117	2900 rpm	3045 rpm	210 mm	0732
NNJ 100-250	EFAFLU	SF25170120	2900 rpm	3045 rpm	265 mm	0735
NNJ 125-250R	EFAFLU	SF25170121	2900 rpm	3045 rpm	265 mm	0894
NNJ 125-250LR	EFAFLU	SF65170124	2900 rpm	3045 rpm	265 mm	0738
NNJ 125-315	EFAFLU	SF25170130	2900 rpm	3045 rpm	280 mm	0900
NNJ 150-315	EFAFLU	SF25170131	2500 rpm	2625 rpm	290 mm	0893

Annexe 1/15 au certificat CNPP Certified : / Appendix 1/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0701

**NNJ 40-200 (2900 rpm)**

Duty Point	Q : 41.8 m <sup>3</sup> /h, H : 57.2 m	Nominal Power (Pn)	15 kW	Fluid	Water
Syst. Requested Point	41.8(m <sup>3</sup> /h), 57.20(m)	Rotation Speed	2950 rpm	Fluid temperature	20°C
Power (P2)	10.0 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	11.8 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	64.7 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	2.50 m	N. Poles	2	Impeller Diam.	aprox.213 mm

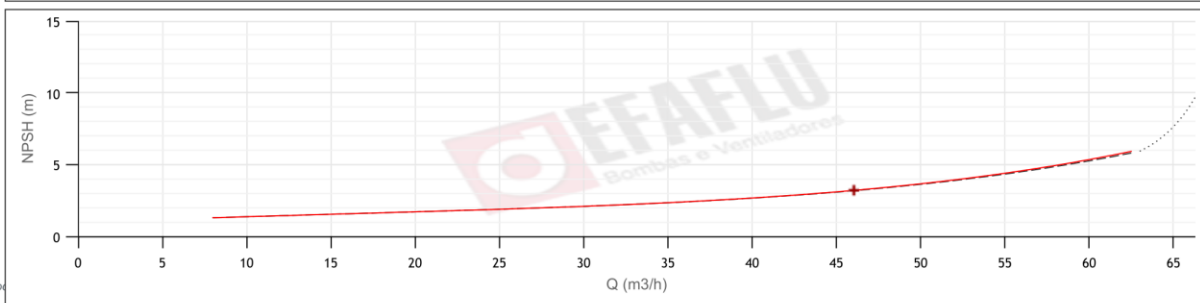
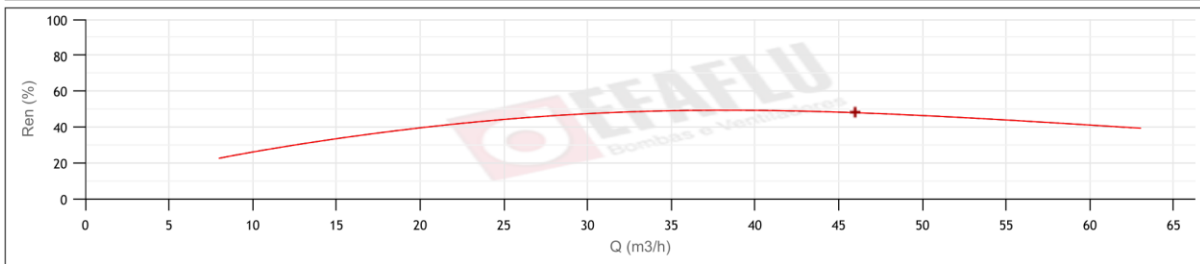
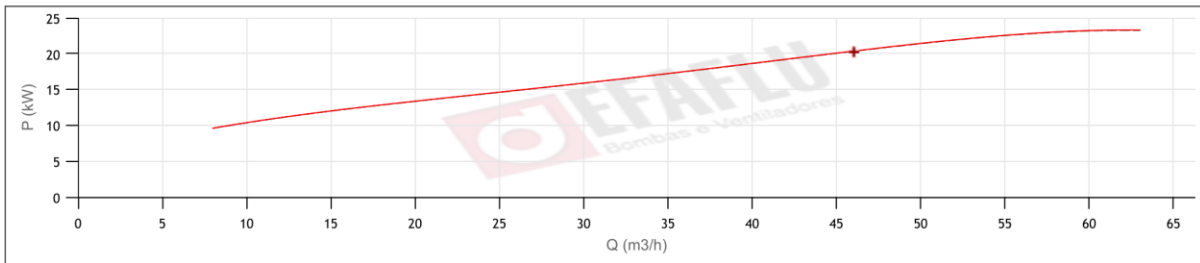
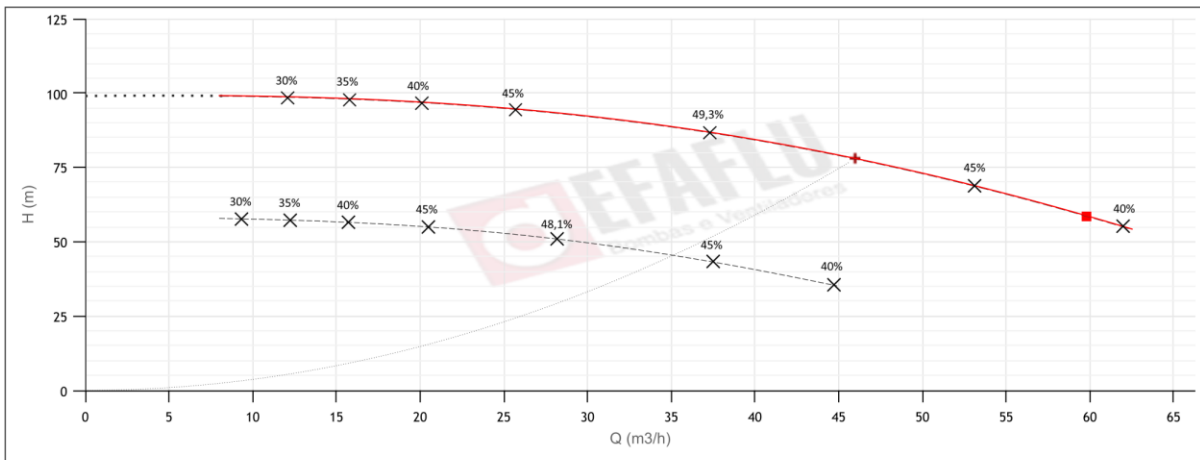


Annexe 2/15 au certificat CNPP Certified : / Appendix 2/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0703

**NNJ 40-250 (2900 rpm)**

Duty Point	Q : 46.0 m <sup>3</sup> /h, H : 78.0 m	Nominal Power (Pn)	30 kW	Fluid	Water
Syst. Requested Point	46(m <sup>3</sup> /h), 78.00(m)	Rotation Speed	2970 rpm	Fluid temperature	20°C
Power (P2)	20.2 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	23.3 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	48.1 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	3.19 m	N. Poles	2	Impeller Diam.	aprox. 265 mm

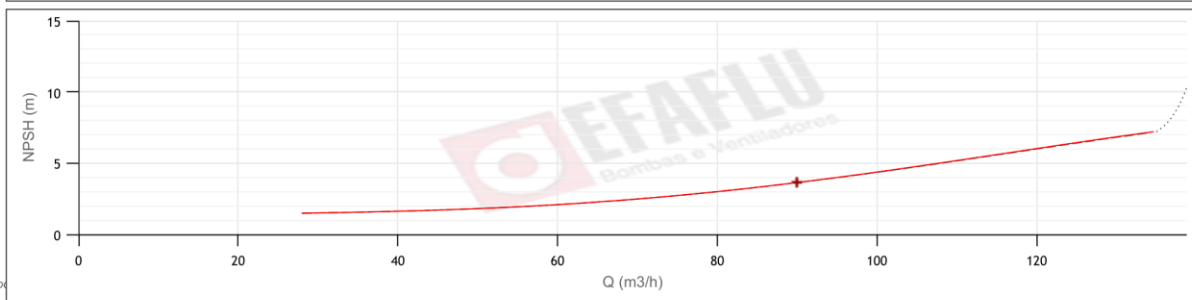
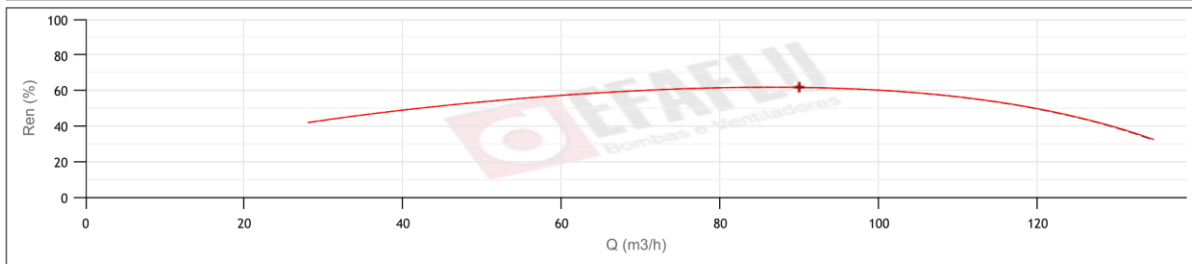
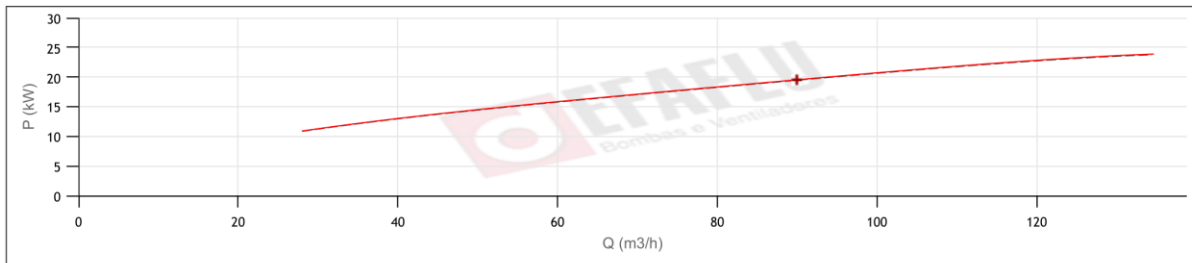
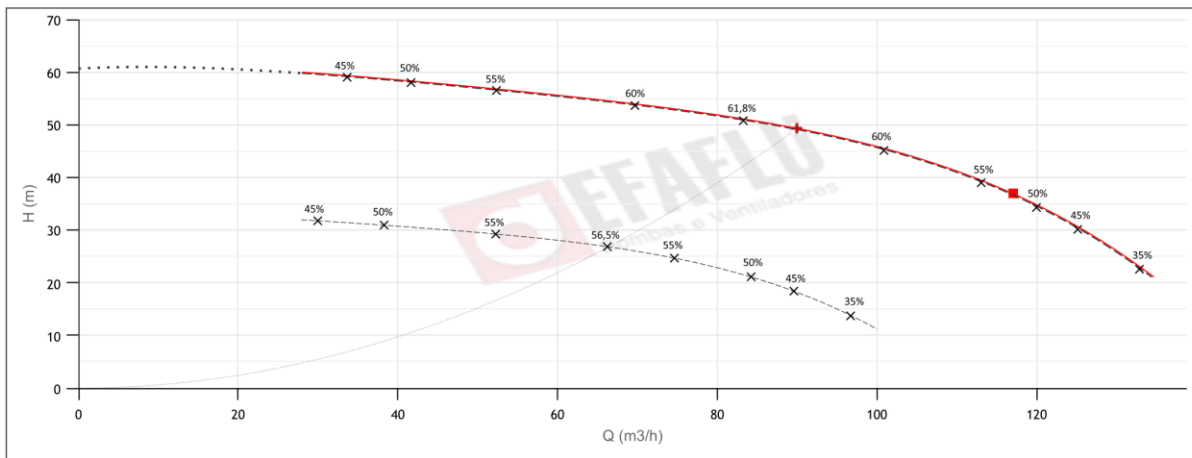


Annexe 3/15 au certificat CNPP Certified : / Appendix 3/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0710

**NNJ 50-200 (2900 rpm)**

Duty Point	Q : 90.0 m <sup>3</sup> /h, H : 49.3 m	Nominal Power (Pn)	30 kW	Fluid	Water
Syst. Requested Point	90(m <sup>3</sup> /h), 49.30(m)	Rotation Speed	2970 rpm	Fluid temperature	20°C
Power (P2)	19.5 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	23.9 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	61.7 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	3.64 m	N. Poles	2	Impeller Diam.	aprox. 210 mm

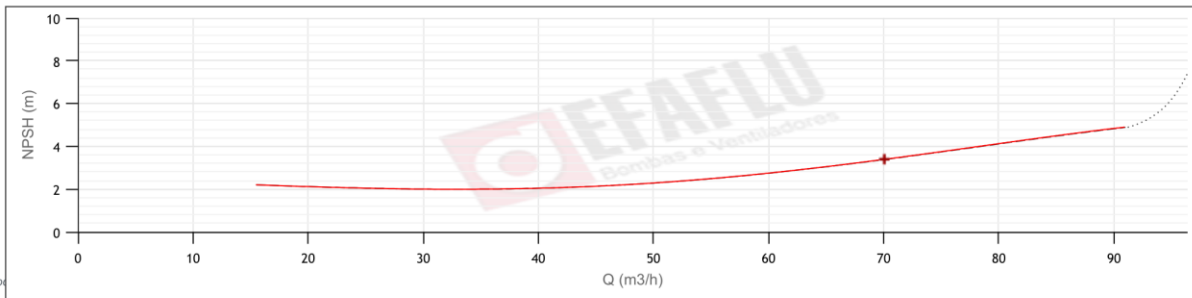
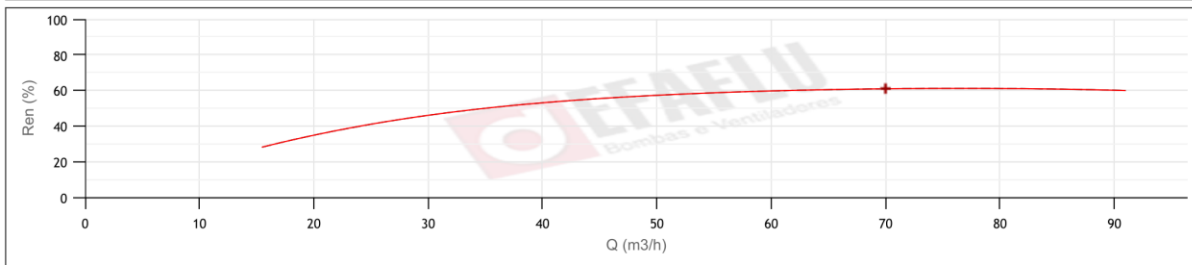
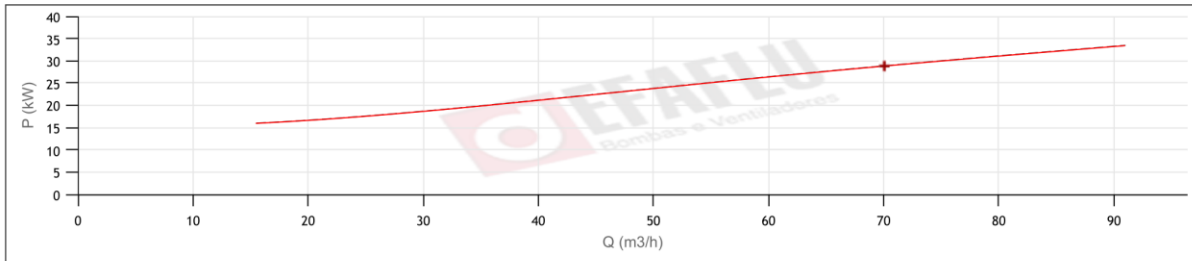
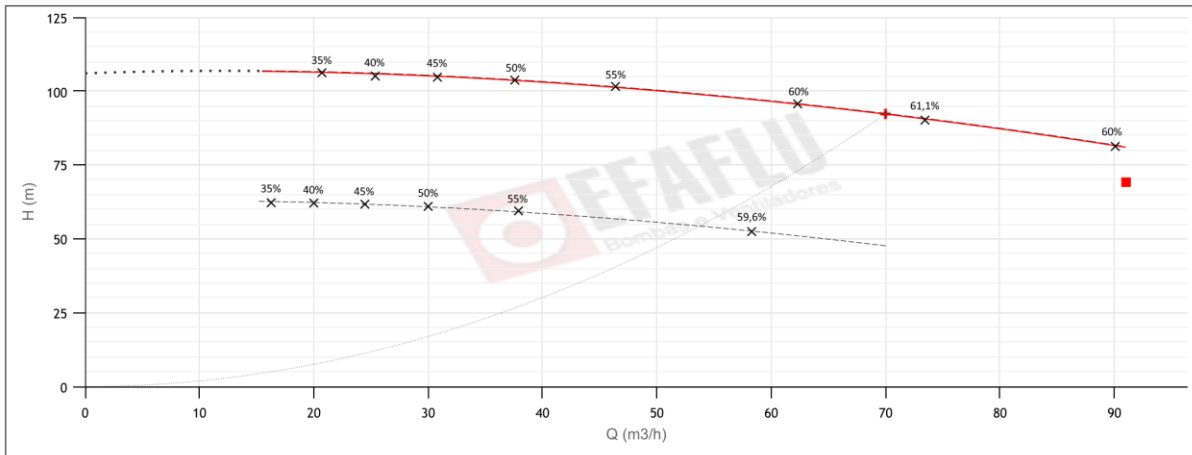


Annexe 4/15 au certificat CNPP Certified : / Appendix 4/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0712

**NNJ 50-250 (2900 rpm)**

Duty Point	Q : 70.0 m <sup>3</sup> /h, H : 92.2 m	Nominal Power (Pn)	37 kW	Fluid	Water
Syst. Requested Point	70(m <sup>3</sup> /h), 92.20(m)	Rotation Speed	2970 rpm	Fluid temperature	20°C
Power (P2)	28.8 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	33.4 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	60.9 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	3.39 m	N. Poles	2	Impeller Diam.	aprox. 265 mm

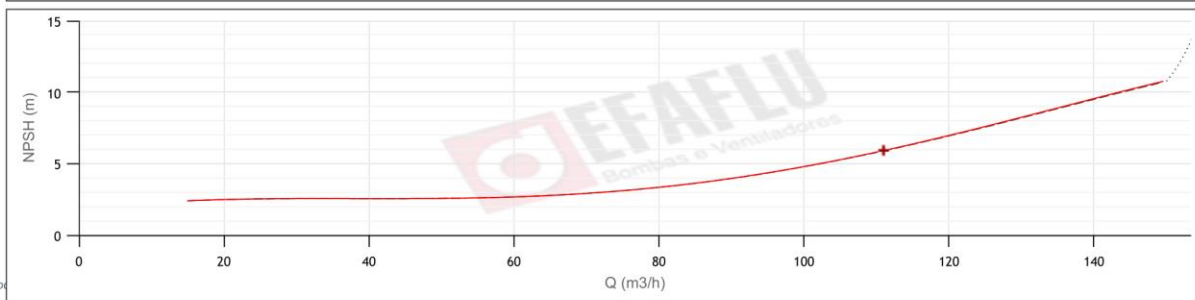
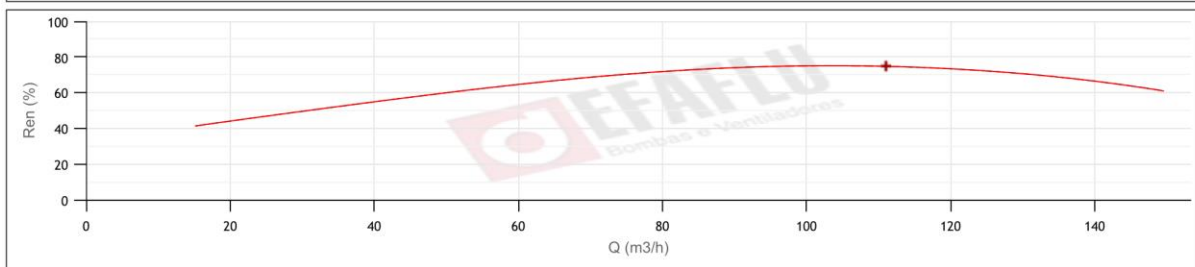
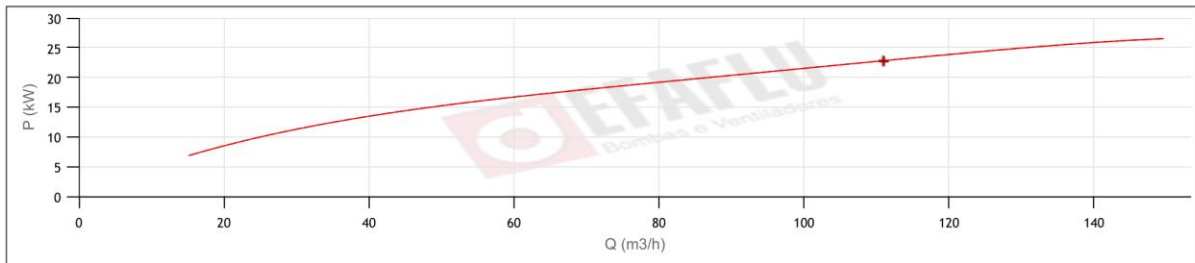
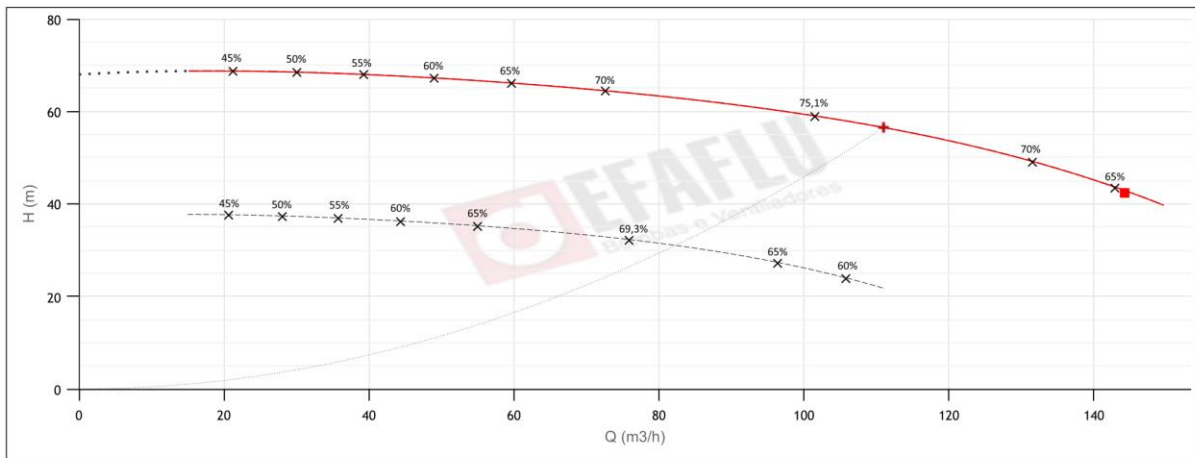


Annexe 5/15 au certificat CNPP Certified : / Appendix 5/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr:0757

**NNJ 65-200 (2900 rpm)**

Duty Point	Q : 111.0 m <sup>3</sup> /h, H : 56.5 m	Nominal Power (Pn)	30 kW	Fluid	Water
Syst. Requested Point	111(m <sup>3</sup> /h), 56.50(m)	Rotation Speed	2970 rpm	Fluid temperature	20°C
Power (P2)	22.7 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	26.5 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	74.8 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	5.91 m	(*) N. Poles	2	Impeller Diam.	aprox. 210 mm

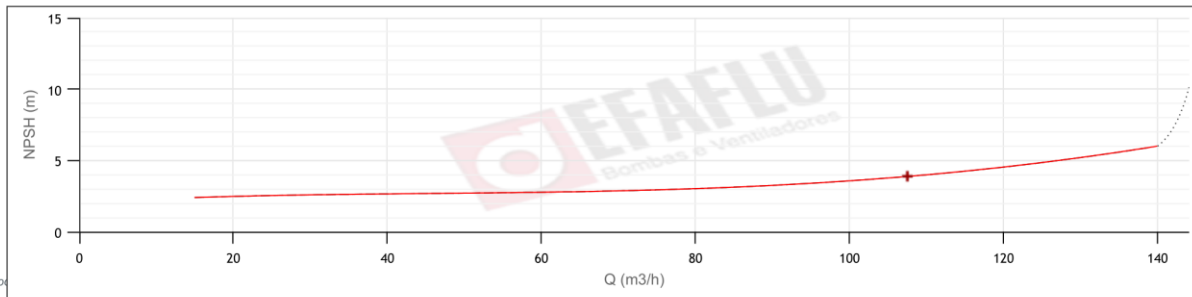
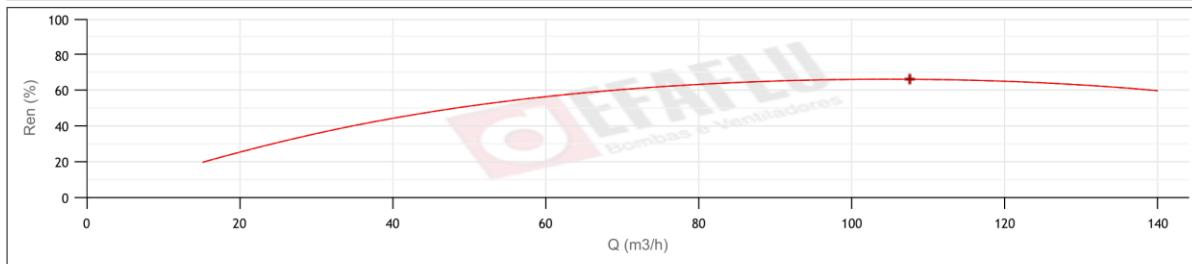
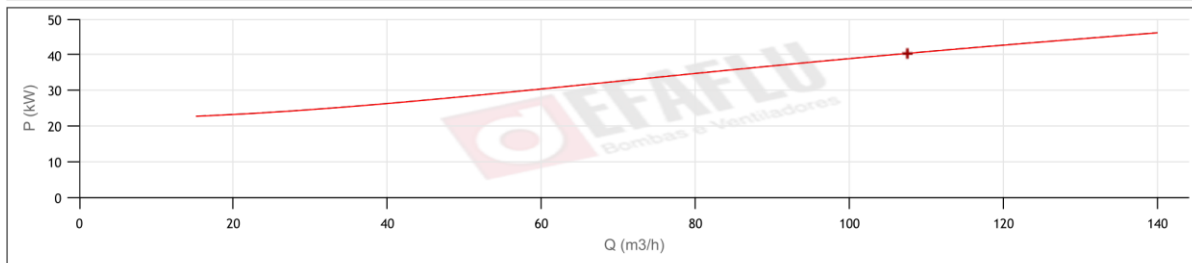
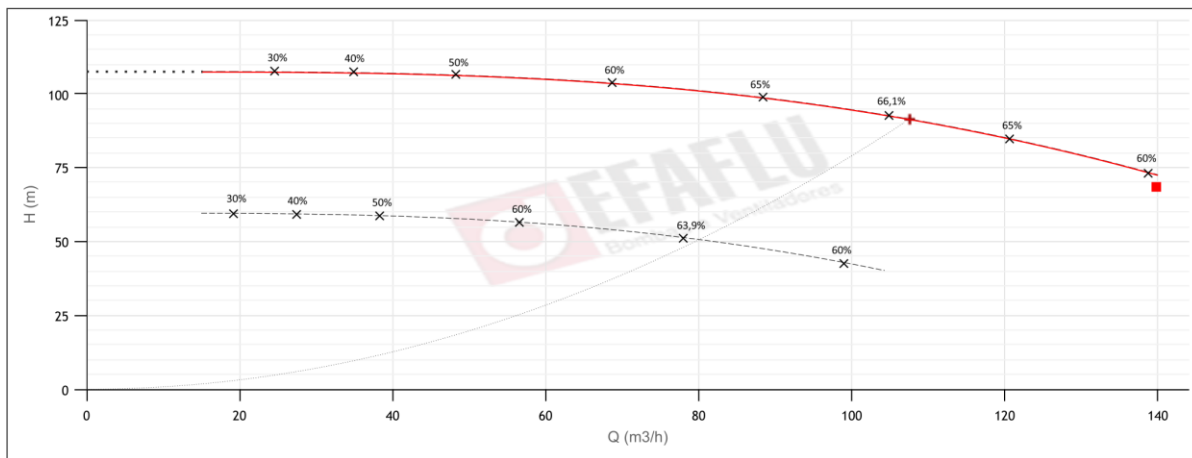


Annexe 6/15 au certificat CNPP Certified : / Appendix 6/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0719

**NNJ 65-250 (2900 rpm)**

Duty Point	Q : 107.5 m <sup>3</sup> /h, H : 91.3 m	Nominal Power (Pn)	55 kW	Fluid	Water
Syst. Requested Point	107.5(m <sup>3</sup> /h), 91.30(m)	Rotation Speed	2980 rpm	Fluid temperature	20°C
Power (P2)	40.3 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	46.1 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	66.1 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	3.88 m	N. Poles	2	Impeller Diam.	aprox. 265 mm



Annexe 7/15 au certificat CNPP Certified : / Appendix 7/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

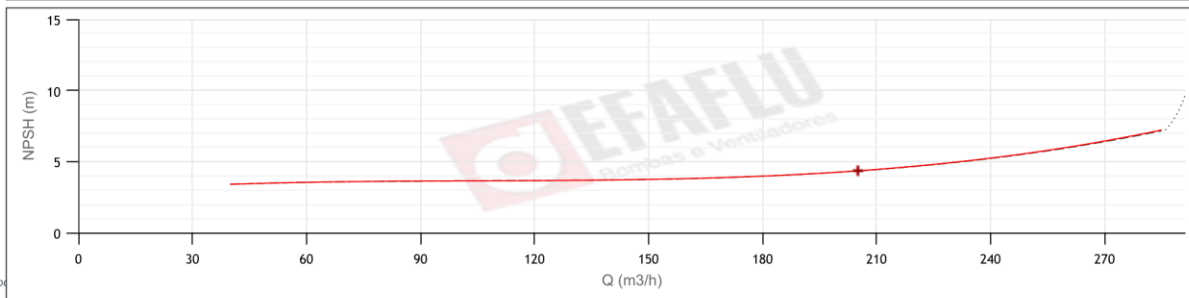
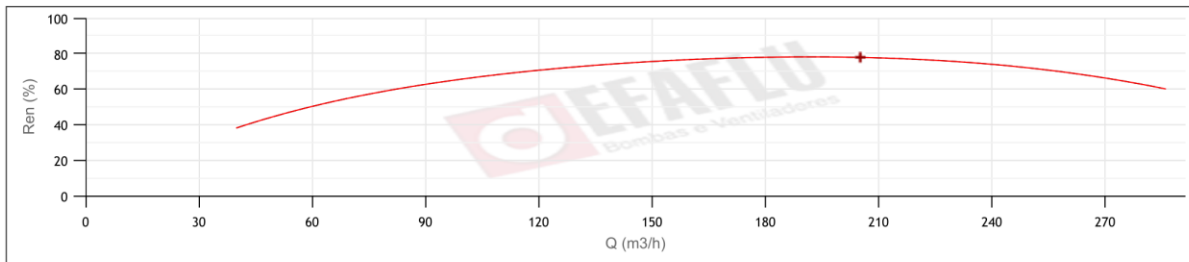
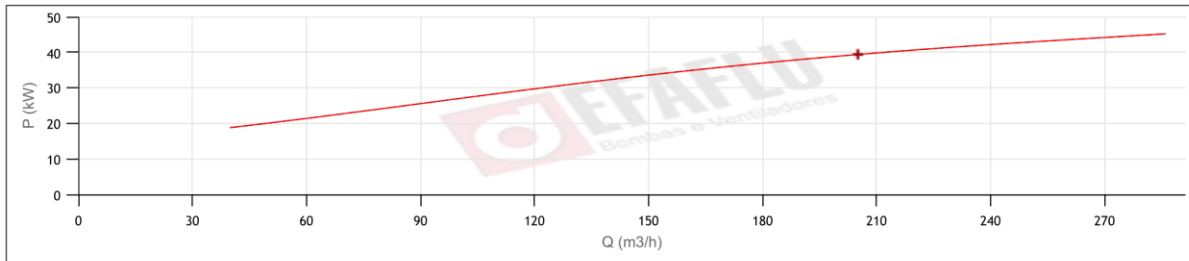
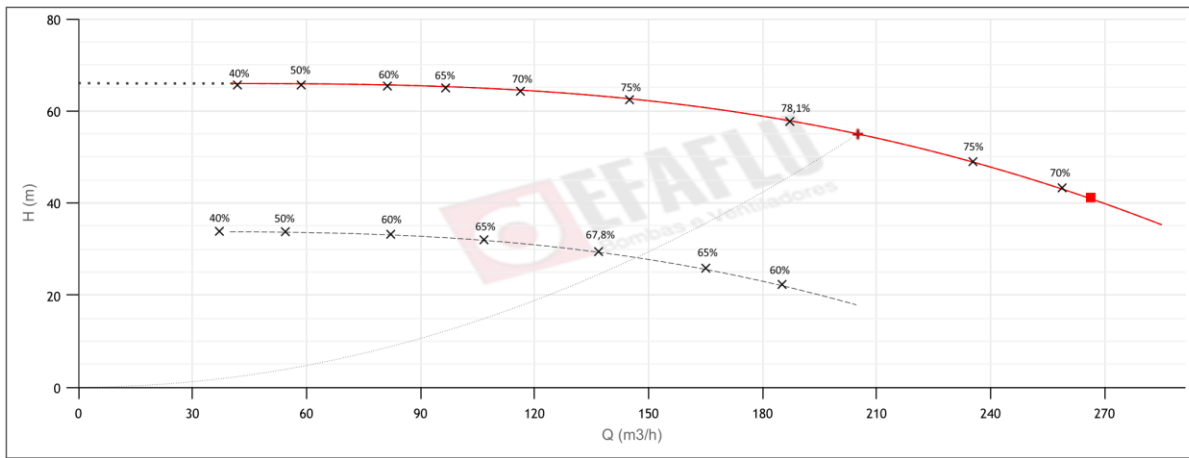




Curve nr: 0724

**NNJ 80-200 (2900 rpm)**

Duty Point	Q : 205.0 m <sup>3</sup> /h, H : 54.9 m	Nominal Power (Pn)	55 kW	Fluid	Water
Syst. Requested Point	205(m <sup>3</sup> /h), 54.90(m)	Rotation Speed	2980 rpm	Fluid temperature	20°C
Power (P2)	39.4 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	45.2 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	77.8 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	4.34 m	N. Poles	2	Impeller Diam.	aprox. 213 mm

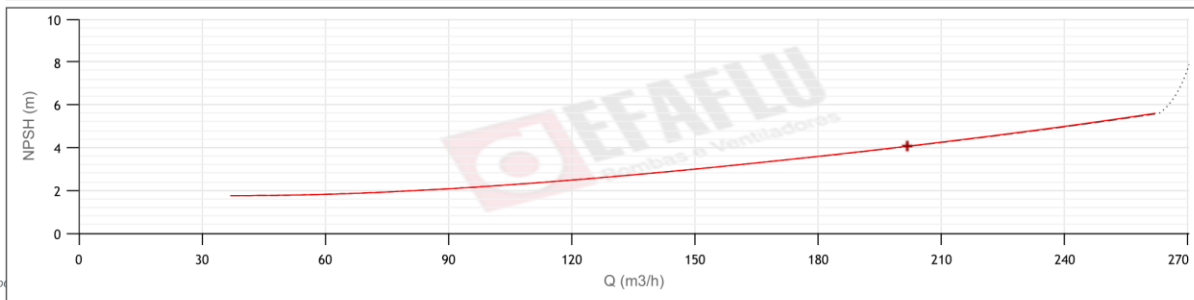
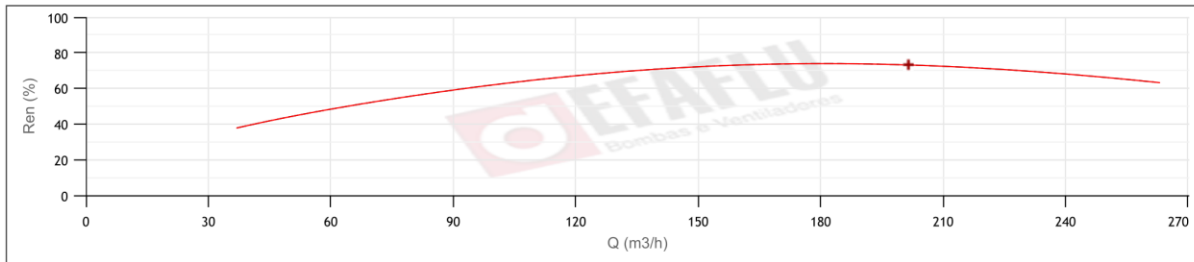
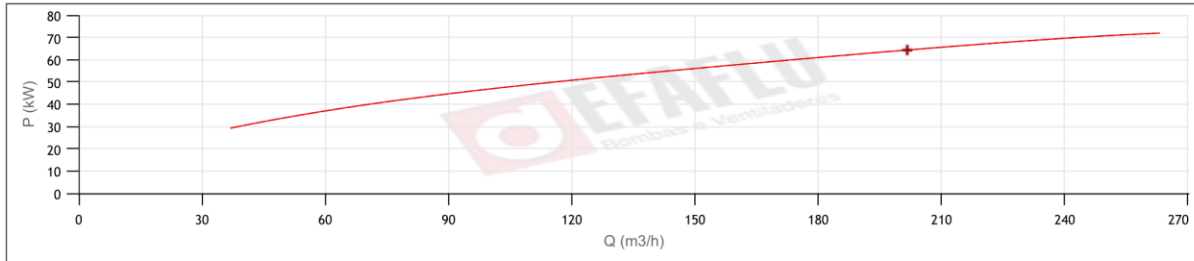
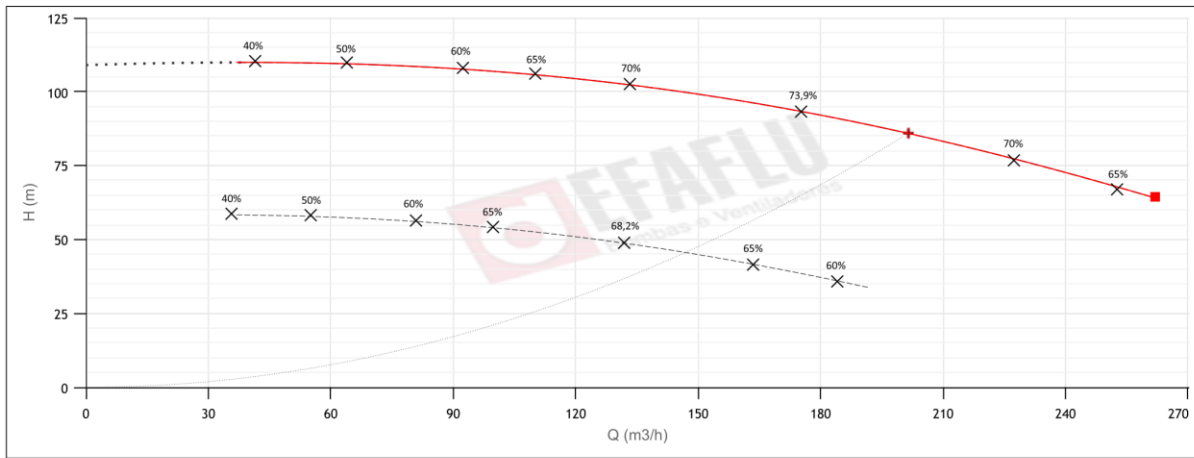


Annexe 8/15 au certificat CNPP Certified : / Appendix 8/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0726

**NNJ 80-250 (2900 rpm)**

Duty Point	Q : 201.5 m <sup>3</sup> /h, H : 85.9 m	Nominal Power (Pn)	75 kW	Fluid	Water
Syst. Requested Point	201.5(m <sup>3</sup> /h), 85.90(m)	Rotation Speed	2980 rpm	Fluid temperature	20°C
Power (P2)	64.2 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	71.9 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	73.2 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	4.06 m	N. Poles	2	Impeller Diam.	aprox. 267 mm



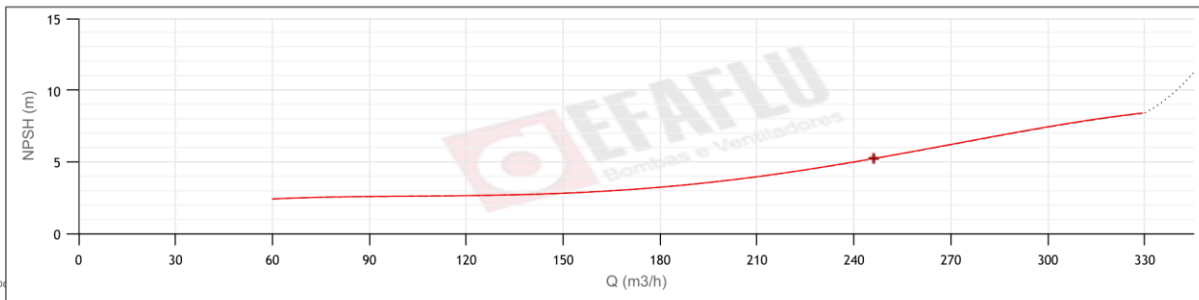
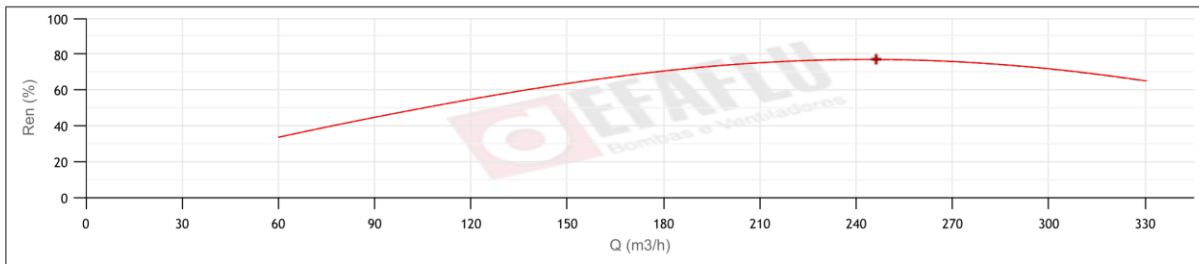
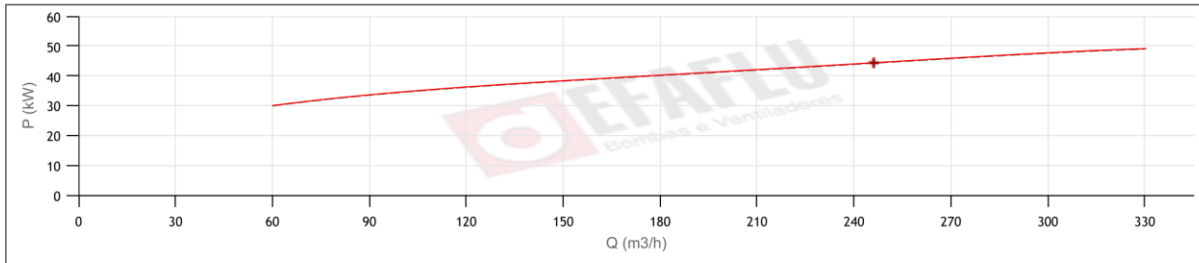
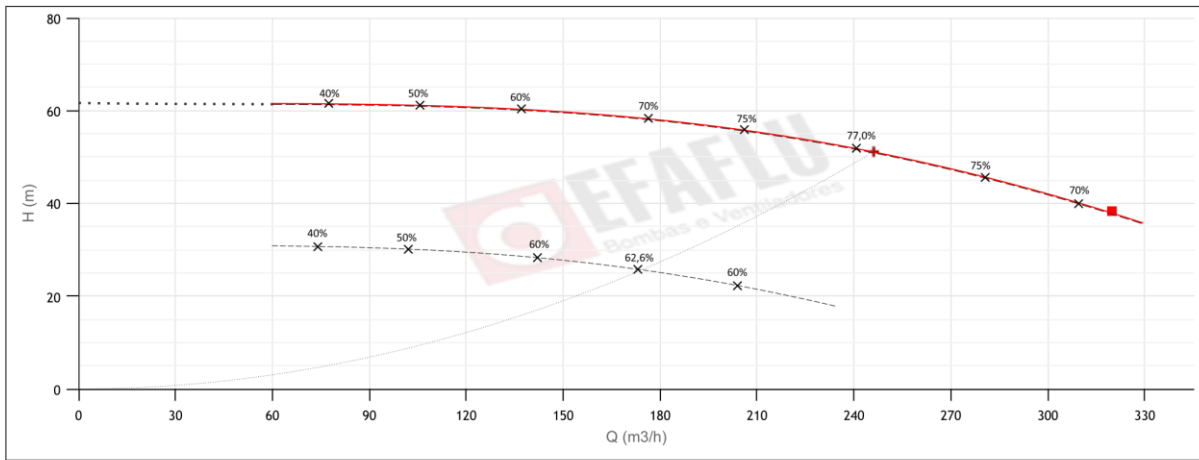
Annexe 9/15 au certificat CNPP Certified : / Appendix 9/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024



Curve nr: 0732

**NNJ 100-200 (2900 rpm)**

Duty Point	Q : 246.0 m <sup>3</sup> /h, H : 51.1 m	Nominal Power (Pn)	55 kW	Fluid	Water
Syst. Requested Point	246(m <sup>3</sup> /h), 51.10(m)	Rotation Speed	2980 rpm	Fluid temperature	20°C
Power (P2)	44.3 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	49.1 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	77.0 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	5.22 m	(*) N. Poles	2	Impeller Diam.	aprox. 210 mm



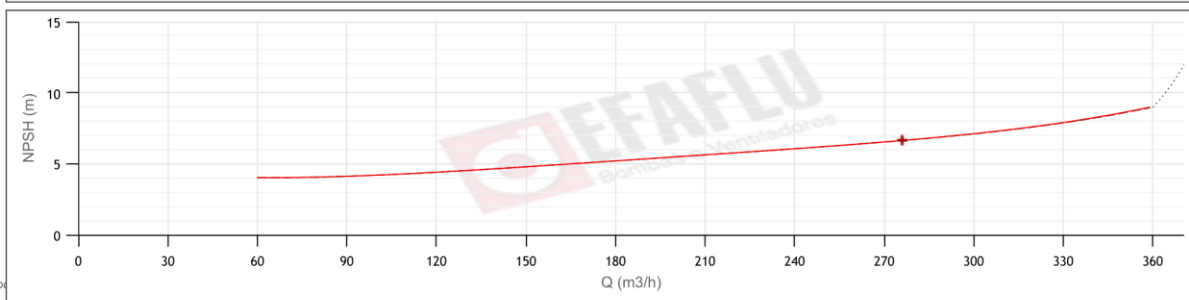
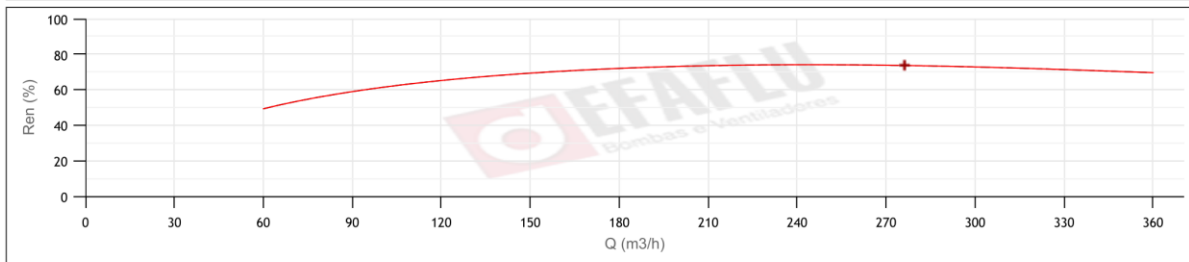
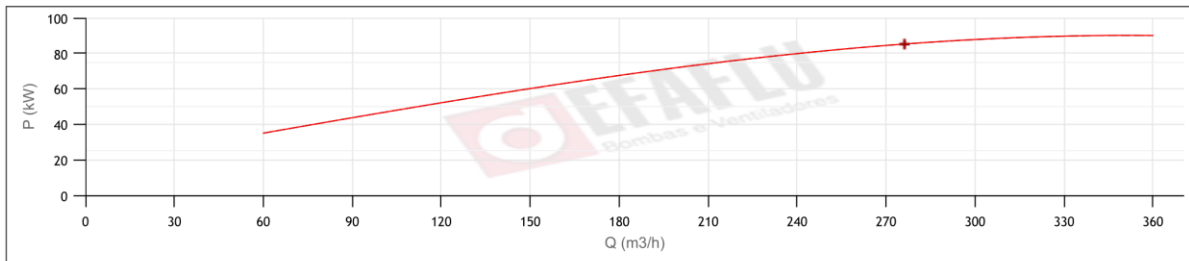
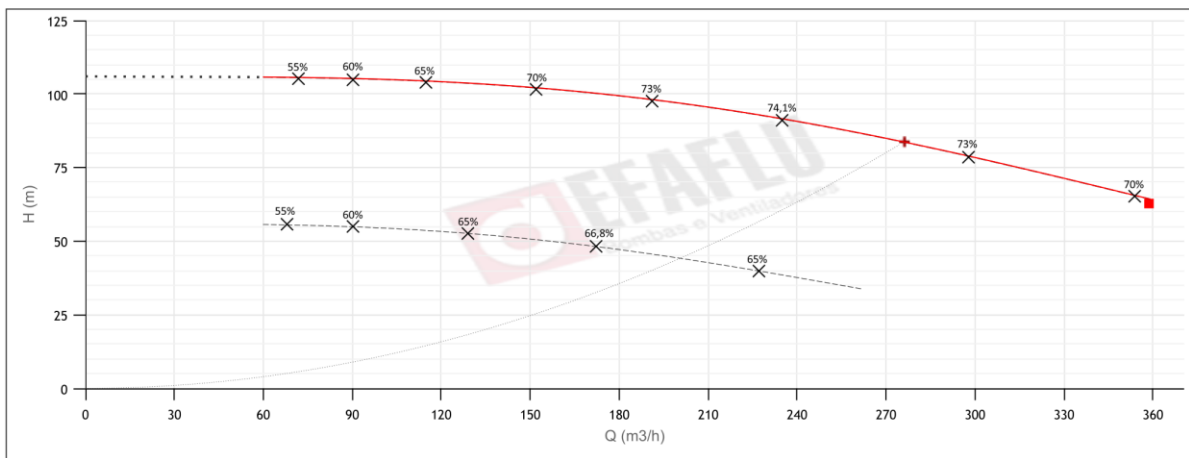
Annexe 10/15 au certificat CNPP Certified : / Appendix 10/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024



Curve nr: 0735

**NNJ 100-250 (2900 rpm)**

Duty Point	Q : 276.0 m <sup>3</sup> /h, H : 83.7 m	Nominal Power (Pn)	110 kW	Fluid	Water
Syst. Requested Point	276(m <sup>3</sup> /h), 83.70(m)	Rotation Speed	2980 rpm	Fluid temperature	20°C
Power (P2)	85.1 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	90.1 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	73.7 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	6.64 m	(*) N. Poles	2	Impeller Diam.	aprox. 265 mm

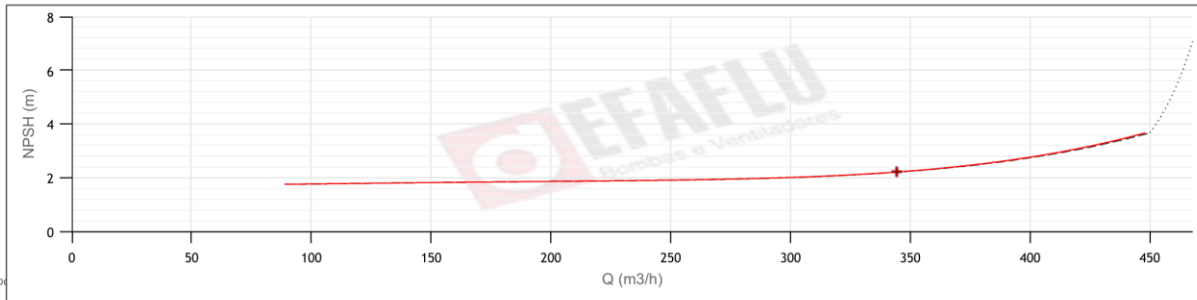
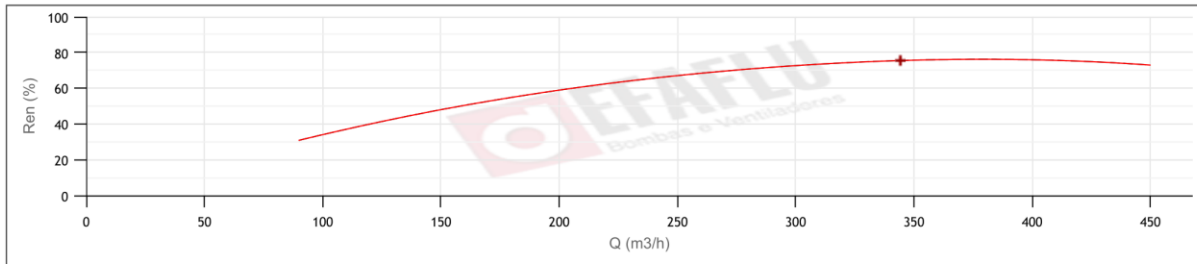
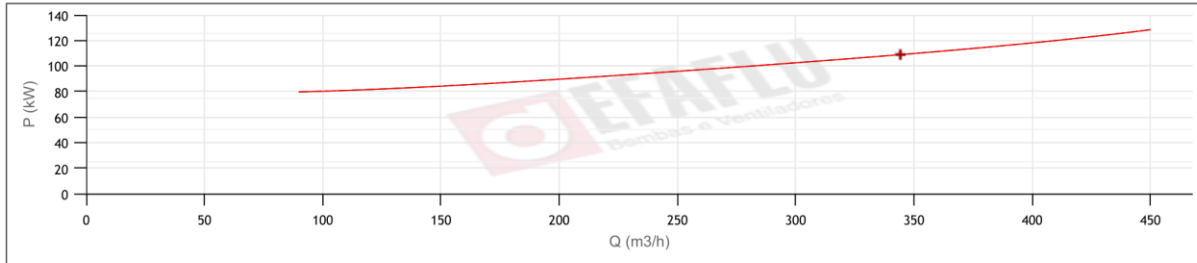
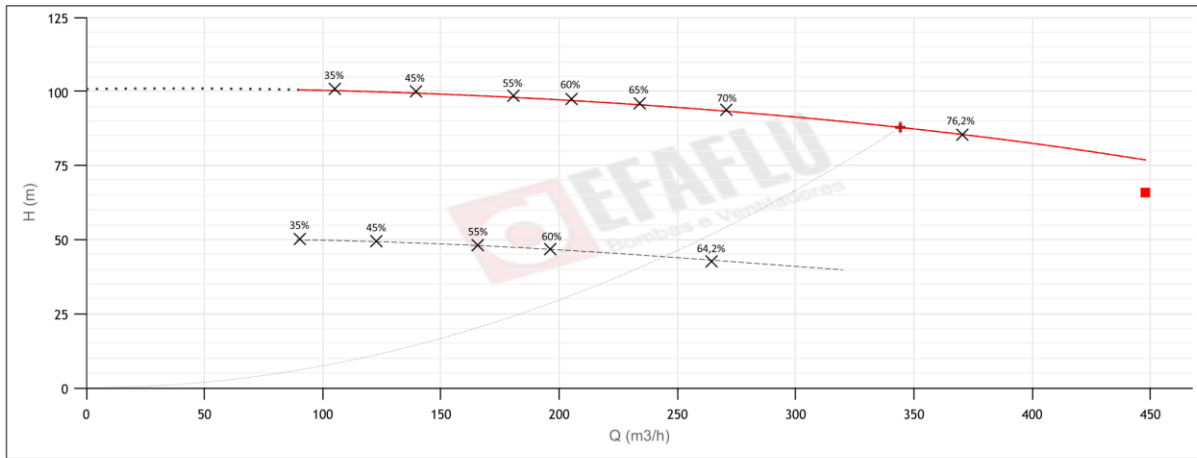


Annexe 11/15 au certificat CNPP Certified : / Appendix 11/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0894

**NNJ 125-250Ri (2900 rpm)**

Duty Point	Q : 344.4 m <sup>3</sup> /h, H : 87.8 m	Nominal Power (Pn)	132 kW	Fluid	Water
Syst. Requested Point	344.4(m <sup>3</sup> /h), 87.80(m)	Rotation Speed	2980 rpm	Fluid temperature	20°C
Power (P2)	108.8 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	128.4 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	75.4 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	2.21 m	N. Poles	2	Impeller Diam.	aprox. 265 mm

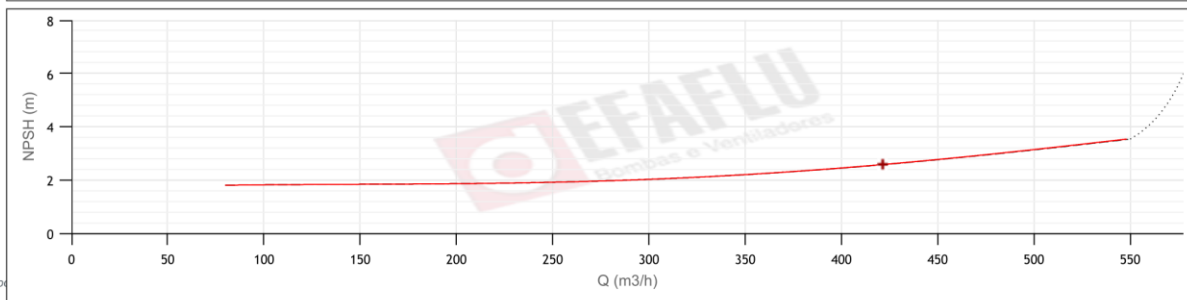
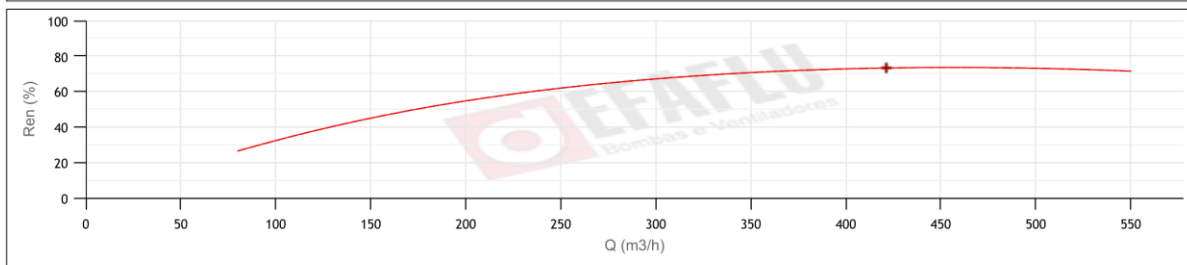
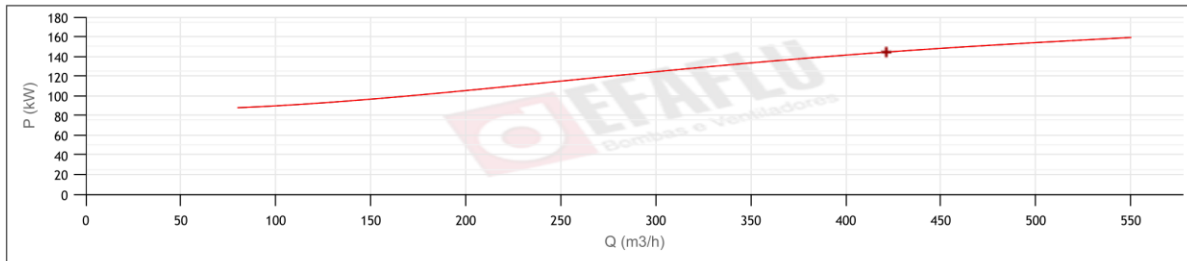
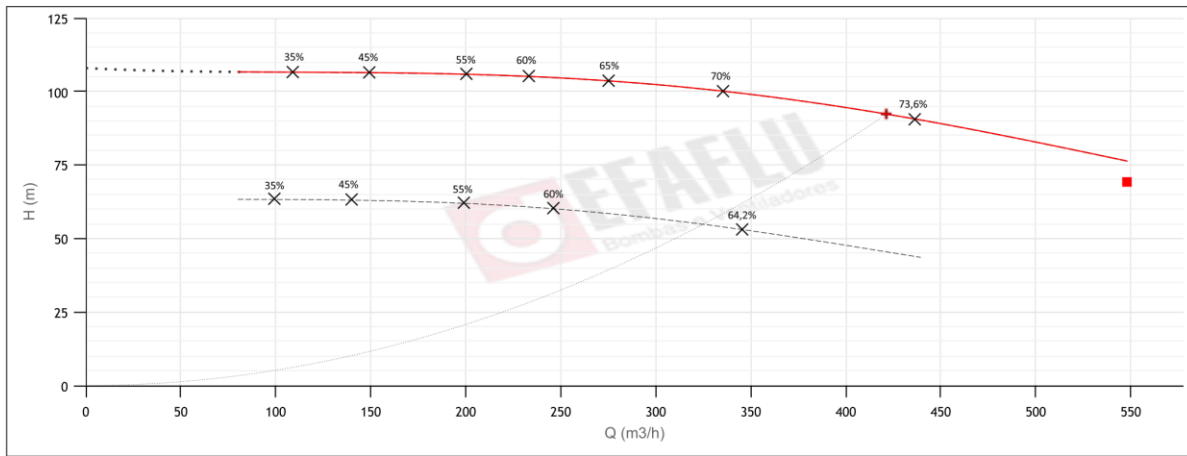


Annexe 12/15 au certificat CNPP Certified : / Appendix 12/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0738

**NNJ 125-250LRi (2900 rpm)**

Duty Point	Q : 421.5 m <sup>3</sup> /h, H : 92.3 m	Nominal Power (Pn)	160 kW	Fluid	Water
Syst. Requested Point	421.5(m <sup>3</sup> /h), 92.30(m)	Rotation Speed	2980 rpm	Fluid temperature	20°C
Power (P2)	144.1 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	159.1 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	73.2 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	2.58 m	N. Poles	2	Impeller Diam.	aprox. 265 mm

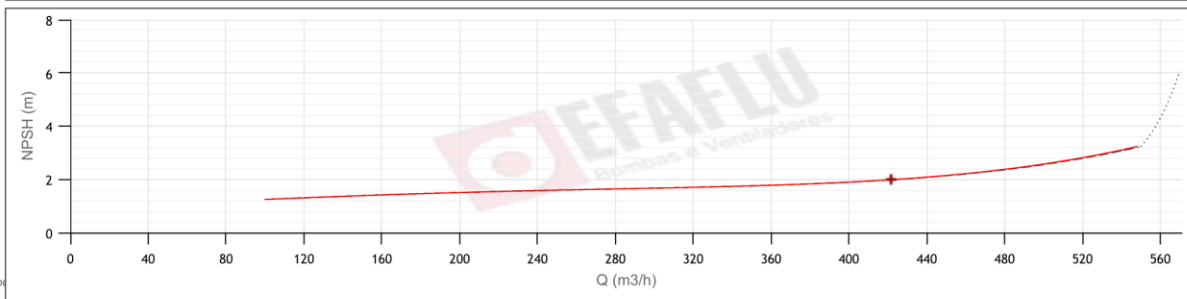
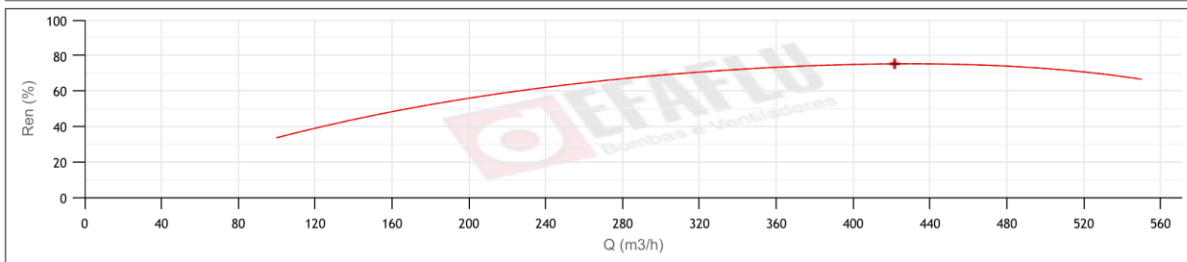
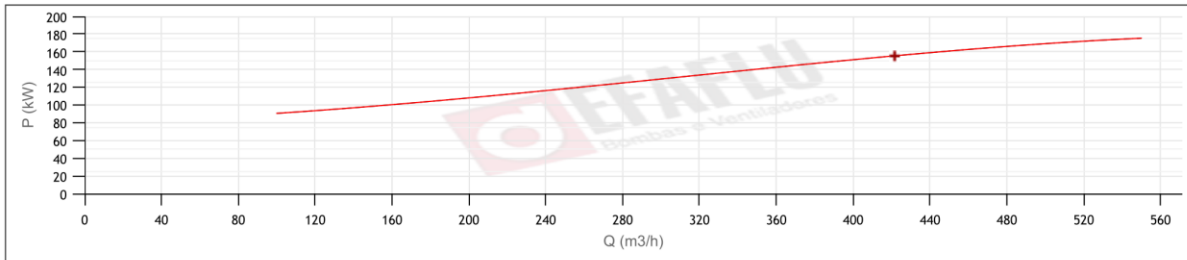
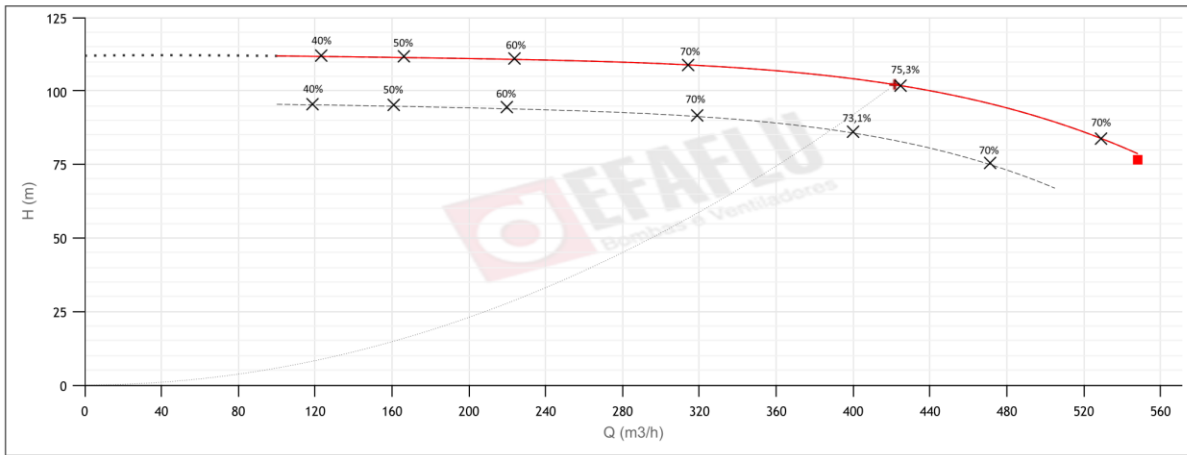


Annexe 13/15 au certificat CNPP Certified : / Appendix 13/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0900

**NNJ 125-315i (2900 rpm)**

Duty Point	Q : 421.5 m <sup>3</sup> /h, H : 102.1 m	Nominal Power (Pn)	200 kW	Fluid	Water
Syst. Requested Point	421.5(m <sup>3</sup> /h), 102.10(m)	Rotation Speed	2980 rpm	Fluid temperature	20°C
Power (P2)	155.1 kW	Frequency	50 Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	175.3 kW	Voltage	400 V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	75.2 %	Eff. Class	IE3	Environment Temperature	40°C
NPSH	1.99 m	N. Poles	2	Impeller Diam.	aprox. 280 mm

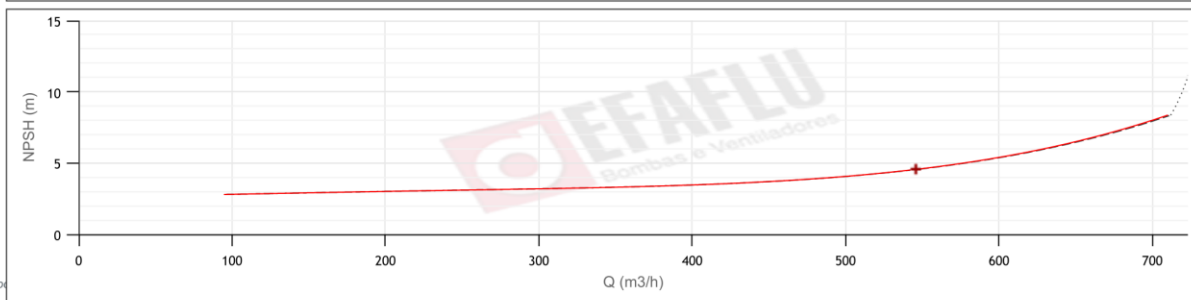
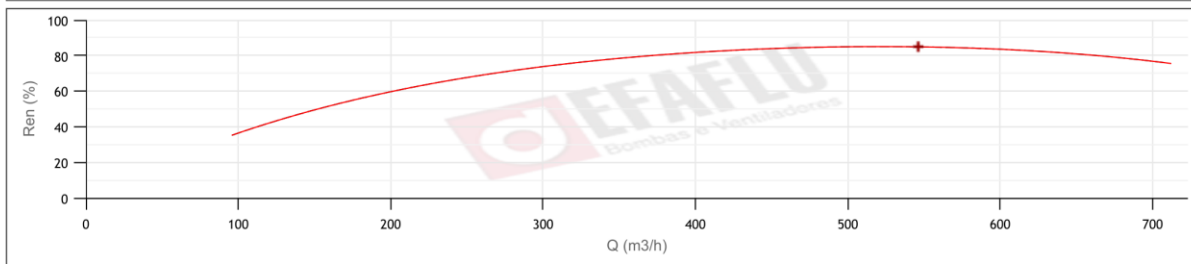
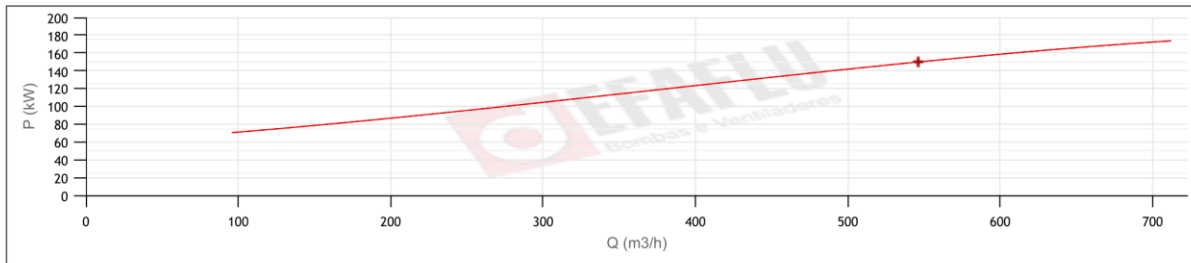
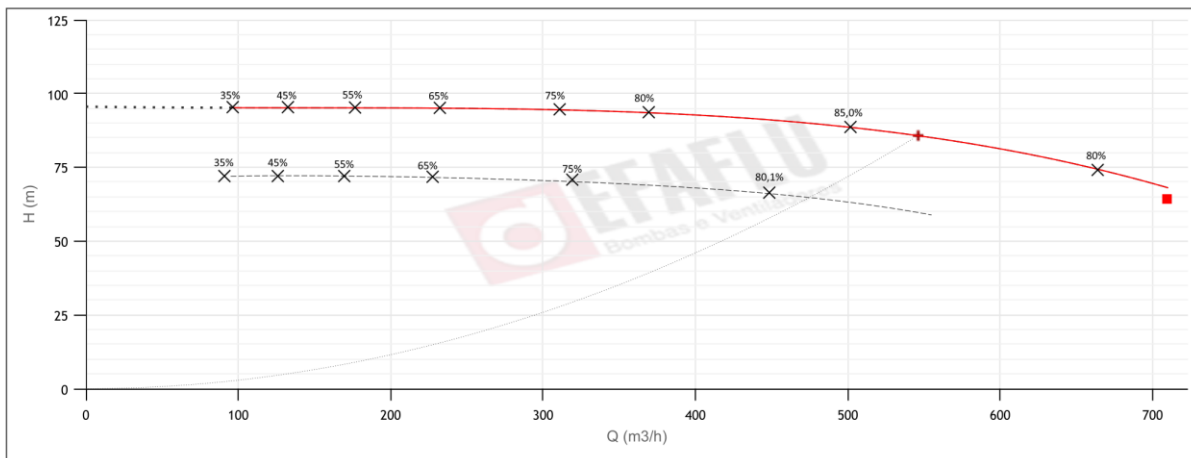


Annexe 14/15 au certificat CNPP Certified : / Appendix 14/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024

Curve nr: 0893

**NNJ 150-315i (2500 rpm)**

Duty Point	Q : 546.0 m <sup>3</sup> /h, H : 85.7 m	Nominal Power (Pn)	kW	Fluid	Water
Syst. Requested Point	546(m <sup>3</sup> /h), 85.70(m)	Rotation Speed	rpm	Fluid temperature	20°C
Power (P2)	149.8 kW	Frequency	Hz	Fluid Density @ 20°C	998.2 kg/m <sup>3</sup>
Maximum Power (P2max)	173.6 kW	Voltage	V	Fluid Kinematic Viscosity	1 mm <sup>2</sup> /s
Hydraulic Efficiency	84.9 %	Eff. Class	IE	Environment Temperature	40°C
NPSH	4.56 m	N. Poles		Impeller Diam.	aprox. 292 mm



Annexe 15/15 au certificat CNPP Certified : / Appendix 15/15 of the CNPP Certified certificate : n°93.24.221 du/of 12/12/2024